

## Product datasheet for **CF800807**

### CTNND1 Mouse Monoclonal Antibody [Clone ID: OTI2E8]

#### Product data:

|                         |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:           | Primary Antibodies                                                                                                                                                                                                                                                                                                                   |
| Clone Name:             | OTI2E8                                                                                                                                                                                                                                                                                                                               |
| Applications:           | IHC, WB                                                                                                                                                                                                                                                                                                                              |
| Recommended Dilution:   | WB 1:2000, IHC 1:150                                                                                                                                                                                                                                                                                                                 |
| Reactivity:             | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                    |
| Host:                   | Mouse                                                                                                                                                                                                                                                                                                                                |
| Isotype:                | IgG1                                                                                                                                                                                                                                                                                                                                 |
| Clonality:              | Monoclonal                                                                                                                                                                                                                                                                                                                           |
| Immunogen:              | Full length human recombinant protein of human CTNND1 (NP_001078927) produced in HEK293T cell.                                                                                                                                                                                                                                       |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)                                                                                                                                                                                                                                                                    |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                                                                                                                                                                                                                            |
| Conjugation:            | Unconjugated                                                                                                                                                                                                                                                                                                                         |
| Storage:                | Store at -20°C as received.                                                                                                                                                                                                                                                                                                          |
| Stability:              | Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                           |
| Predicted Protein Size: | 108 kDa                                                                                                                                                                                                                                                                                                                              |
| Gene Name:              | Homo sapiens catenin delta 1 (CTNND1), transcript variant 1, mRNA.                                                                                                                                                                                                                                                                   |
| Database Link:          | <a href="#">NP_001078927</a><br><a href="#">Entrez Gene 12388 MouseEntrez Gene 311163 RatEntrez Gene 1500 Human O60716</a>                                                                                                                                                                                                           |



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**Background:**

This gene encodes a member of the Armadillo protein family, which function in adhesion between cells and signal transduction. Multiple translation initiation codons and alternative splicing result in many different isoforms being translated. Not all of the full-length nature of the described transcript variants have been determined. Read-through transcription also exists between this gene and the neighboring upstream thioredoxin-related transmembrane protein 2 (TMX2) gene. [provided by RefSeq, Dec 2010]

**Synonyms:**

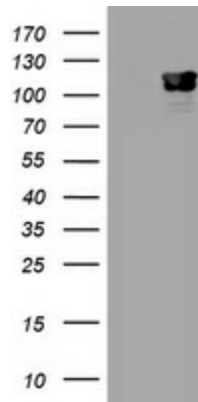
CAS; CTNND; p120; p120(CAS); p120(CTN); P120CAS; P120CTN

**Protein Families:**

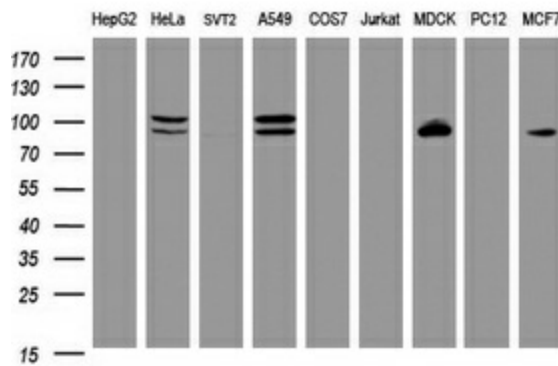
Druggable Genome

**Protein Pathways:**

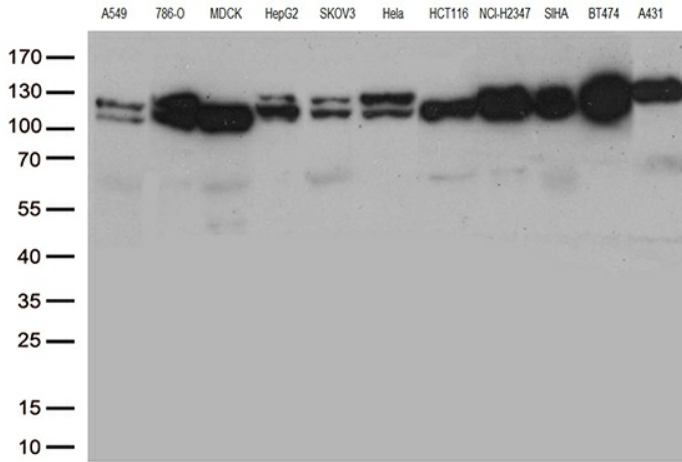
Adherens junction, Leukocyte transendothelial migration

**Product images:**


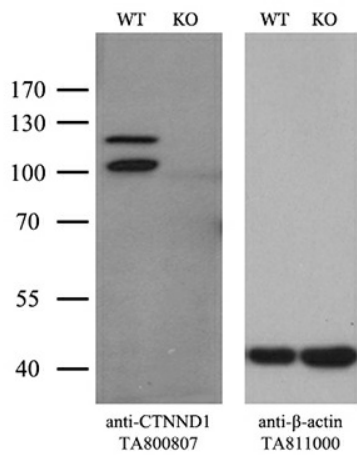
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CTNND1 (Cat# [RC222771], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CTNND1 (Cat# [TA800807]). Positive lysates [LY421307] (100ug) and [LC421307] (20ug) can be purchased separately from OriGene.



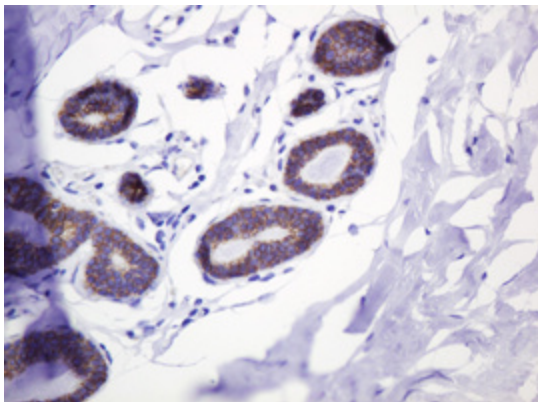
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-CTNND1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human). Dilution: 1:2000



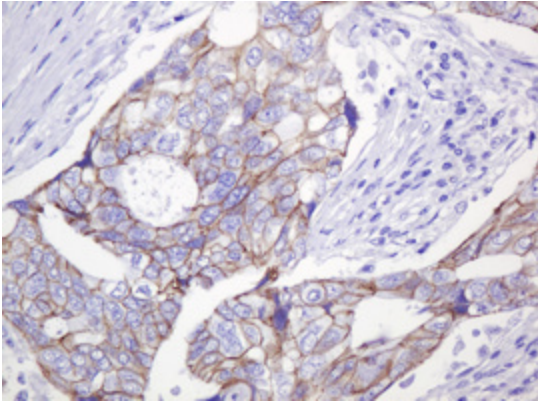
Western blot analysis of extracts (35ug) from different cell line by using anti-CTNND1 monoclonal antibody (1:500).



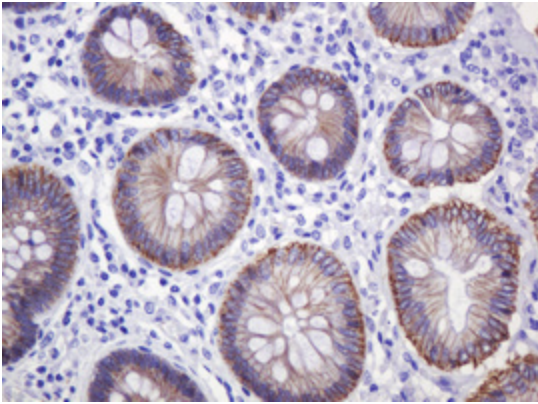
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and CTNND1-Knockout HeLa cells (KO, Cat# [LC810057]) were separated by SDS-PAGE and immunoblotted with anti-CTNND1 monoclonal antibody TA800807. Then the blotted membrane was stripped and reprobed with anti-b-actin antibody ([TA811000]) as a loading control (1:500).



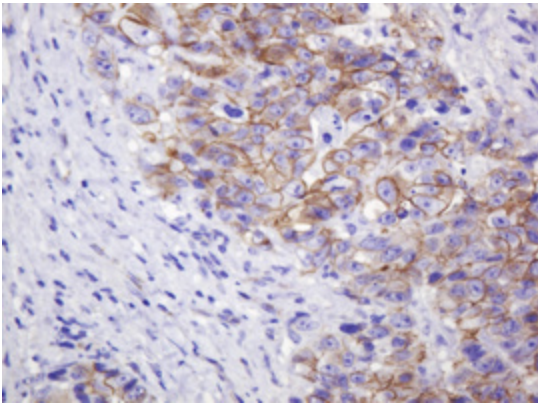
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)

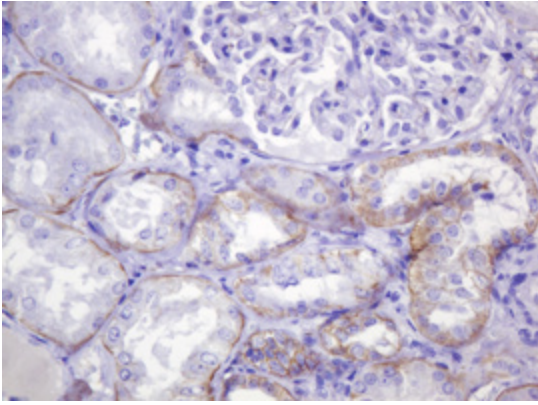


Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)

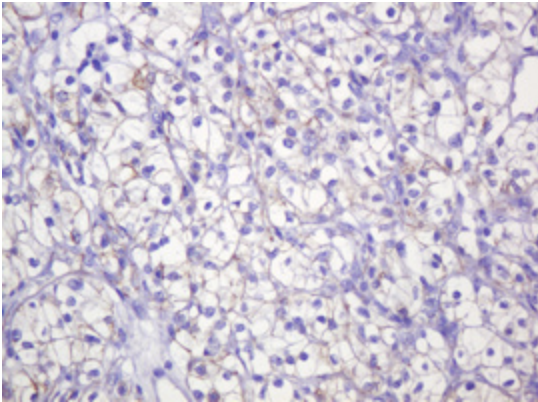


Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)

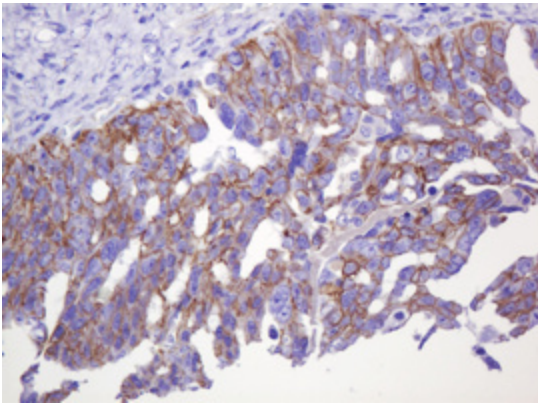




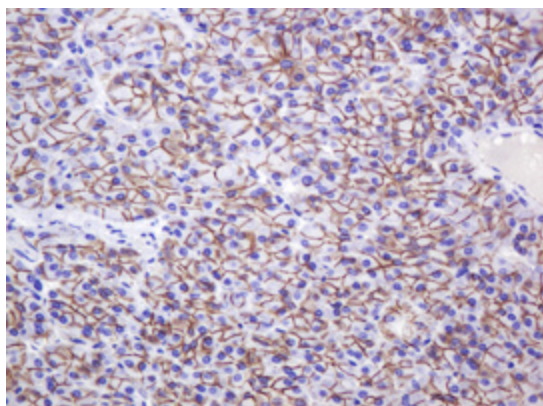
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)



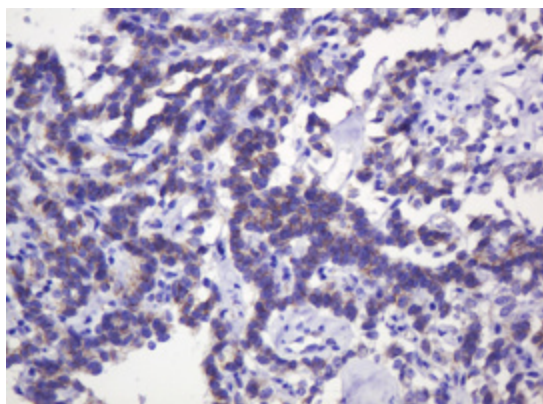
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)



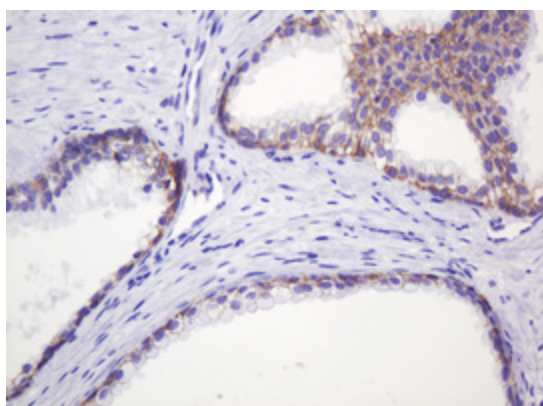
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)



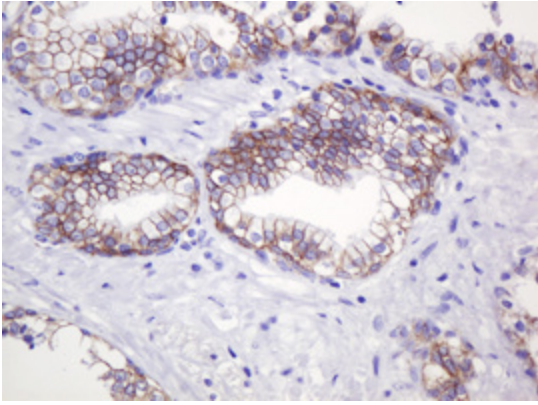
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)



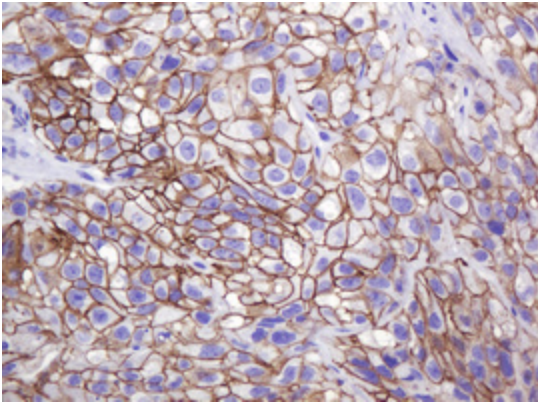
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-CTNND1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA800807]) (1:150)