

## Product datasheet for **CF804816**

### **R Cadherin (CDH4) Mouse Monoclonal Antibody [Clone ID: OTI6H5]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI6H5
Applications:	IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 170-428 of human CDH4 (NP_001785) produced in E.coli.
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:	98.3 kDa
Gene Name:	cadherin 4
Database Link:	<a href="#">NP_001785</a> <a href="#">Entrez Gene 12561 Mouse</a> <a href="#">Entrez Gene 114588 Rat</a> <a href="#">Entrez Gene 1002 Human</a> <a href="#">P55283</a>



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**Background:**

This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

**Synonyms:**

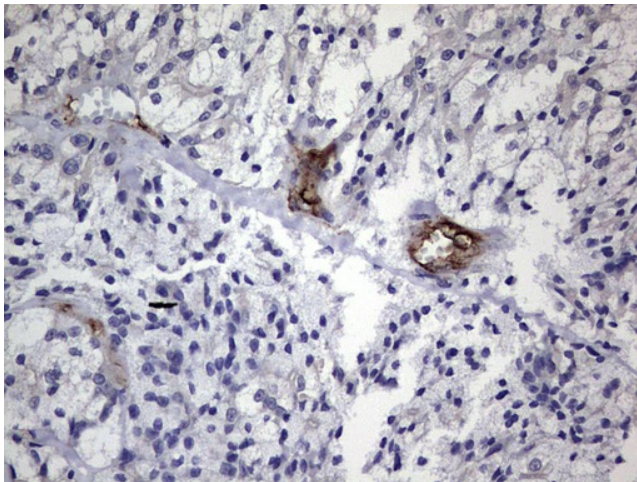
CAD4; R-CAD; RCAD

**Protein Families:**

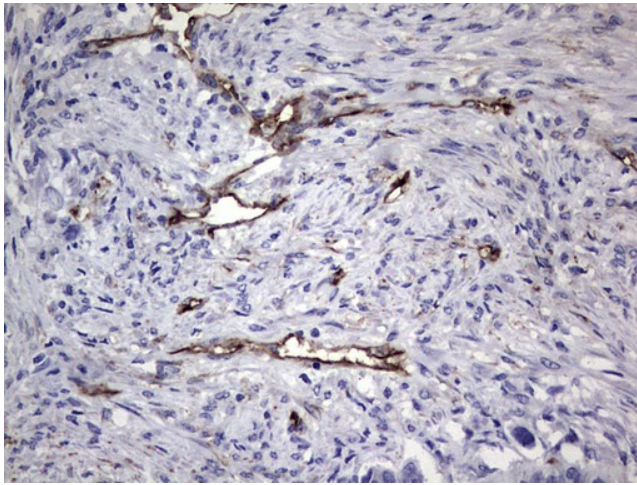
Transmembrane

**Protein Pathways:**

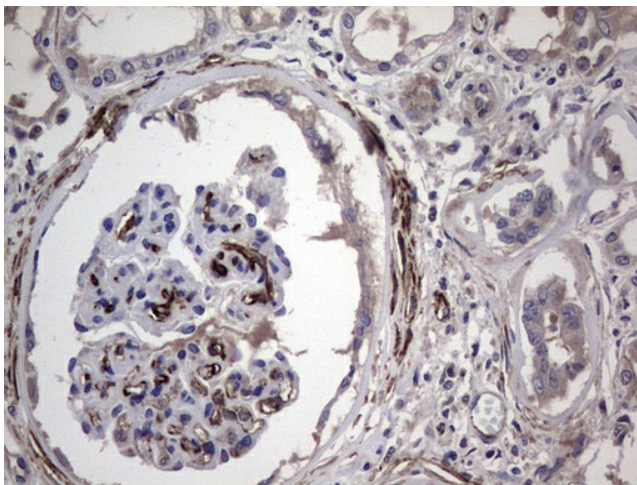
Cell adhesion molecules (CAMs)

**Product images:**


Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-CDH4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-CDH4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-CDH4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

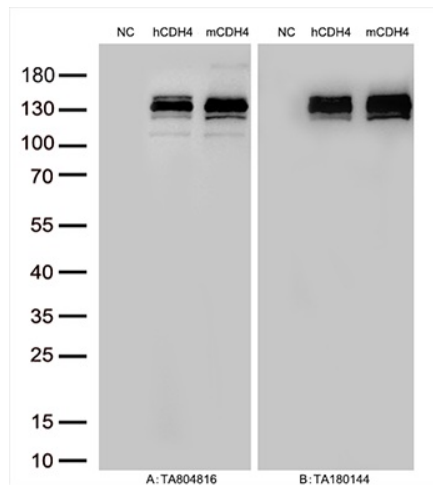


Figure A, Western blot analysis of overexpressed lysates(25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human CDH4 plasmid ([RC210970], hCDH4), mouse CDH4 plasmid ([MR215926], mCDH4) using anti-CDH4 antibody [TA804816](1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)