

Product datasheet for **CF500537**

TrkC (NTRK3) Mouse Monoclonal Antibody [Clone ID: OTI2B8]

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI2B8 |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | WB 1:2000, IHC 1:50, IF 1:100 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Full-length protein expressed in 293T cell transfected with human NTRK3 expression vector |
| 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: | 94.4 kDa |
| Gene Name: | Homo sapiens neurotrophic receptor tyrosine kinase 3 (NTRK3), transcript variant 3, mRNA. |
| Database Link: | NP_001007157 Entrez Gene 18213 MouseEntrez Gene 29613 RatEntrez Gene 4916 Human Q16288 |



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Background:

This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in this gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers.

Synonyms:

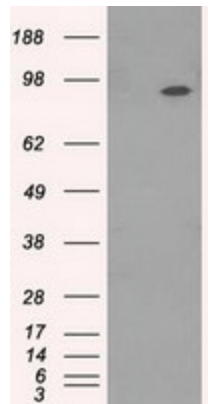
gp145(trkC); TRKC

Protein Families:

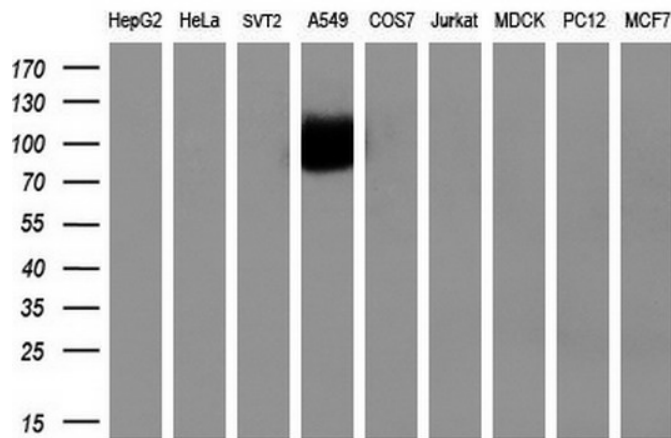
Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways:

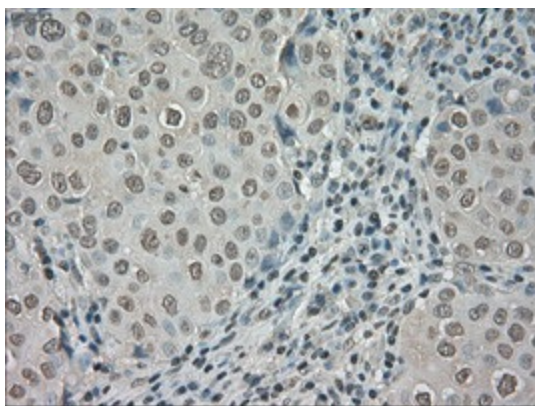
Neurotrophin signaling pathway

Product images:


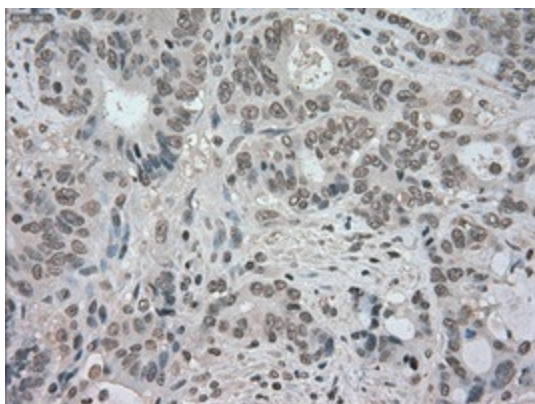
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NTRK3 (Cat# [RC203781], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NTRK3 (Cat# [TA500537]).



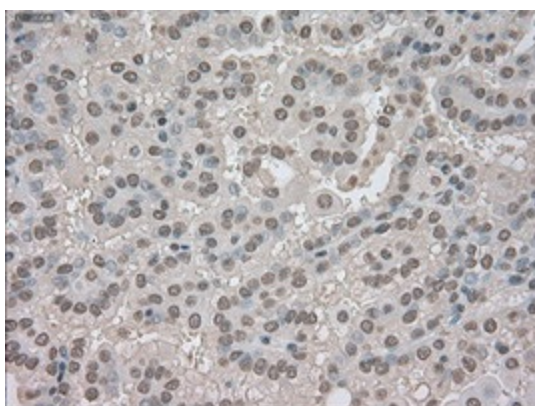
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-NTRK3 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



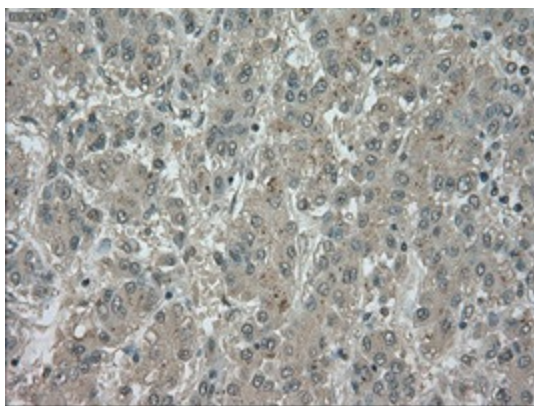
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



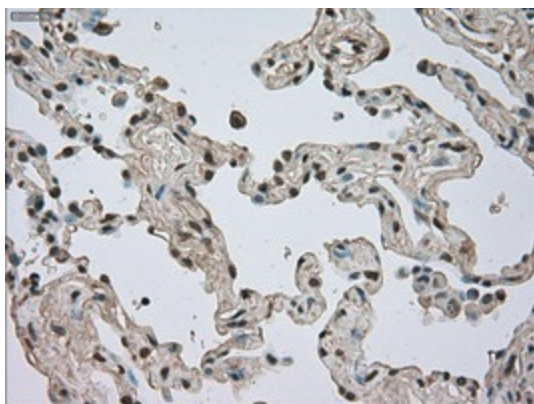
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



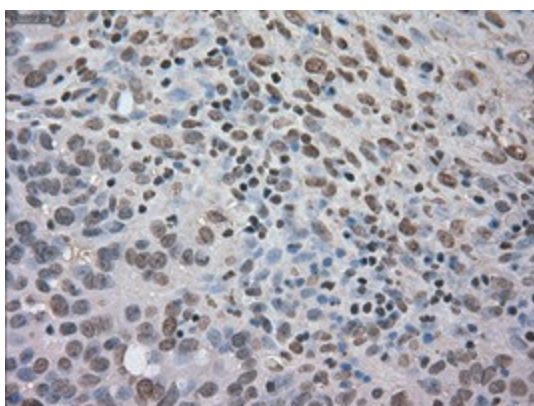
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



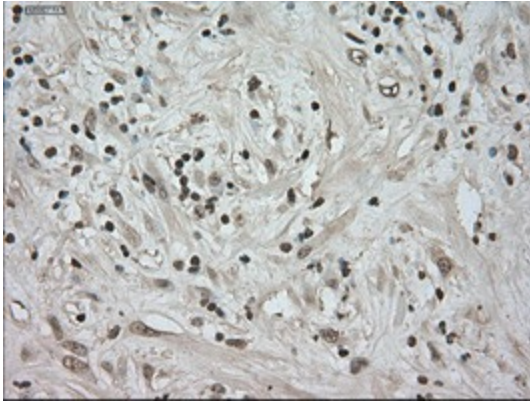
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



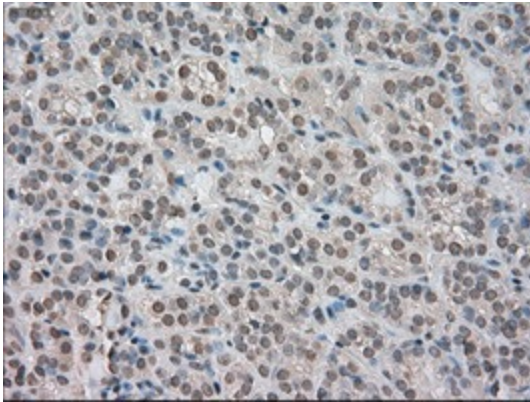
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



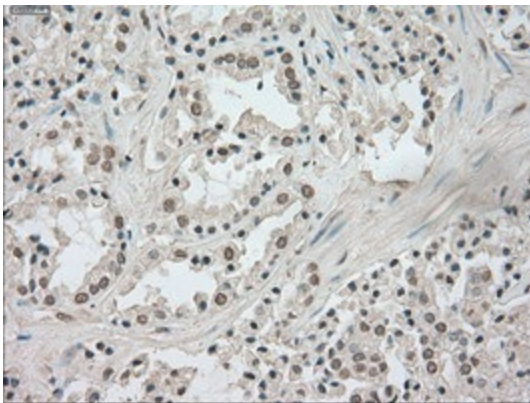
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



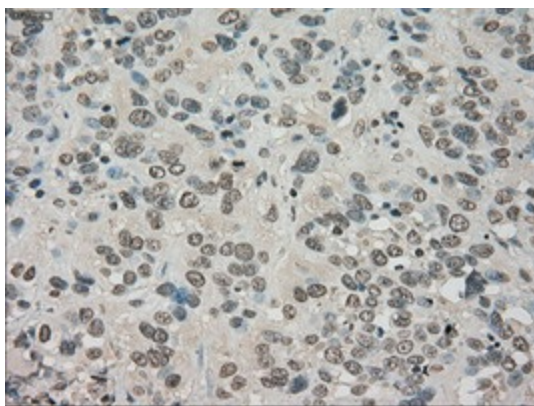
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



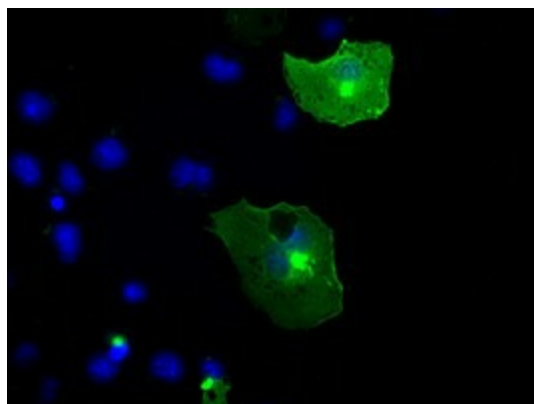
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-NTRK3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500537])



Anti-NTRK3 mouse monoclonal antibody ([TA500537]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY NTRK3 ([RC203781]).