

NEP / DDR1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10598**Specification**

NEP / DDR1 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	Q08345
Reactivity	Human, Monkey, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101kDa KDa

NEP / DDR1 Antibody (Internal) - Additional Information**Gene ID** 780**Other Names**

Epithelial discoidin domain-containing receptor 1, Epithelial discoidin domain receptor 1, 2.7.10.1, CD167 antigen-like family member A, Cell adhesion kinase, Discoidin receptor tyrosine kinase, HGK2, Mammary carcinoma kinase 10, MCK-10, Protein-tyrosine kinase 3A, Protein-tyrosine kinase RTK-6, TRK E, Tyrosine kinase DDR, Tyrosine-protein kinase CAK, CD167a, DDR1, CAK, EDDR1, NEP, NTRK4, PTK3A, RTK6, TRKE

Target/Specificity

Human DDR1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

NEP / DDR1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

NEP / DDR1 Antibody (Internal) - Protein Information**Name** DDR1**Synonyms** CAK, EDDR1, NEP, NTRK4, PTK3A, RTK6, TRK**Function**

Tyrosine kinase that functions as a cell surface receptor for fibrillar collagen and regulates cell attachment to the extracellular matrix, remodeling of the extracellular matrix, cell migration, differentiation, survival and cell proliferation. Collagen binding triggers a signaling pathway that involves SRC and leads to the activation of MAP kinases. Regulates remodeling of the extracellular matrix by up-regulation of the matrix metalloproteinases MMP2, MMP7 and MMP9, and thereby facilitates cell migration and wound healing. Required for normal blastocyst implantation during

pregnancy, for normal mammary gland differentiation and normal lactation. Required for normal ear morphology and normal hearing (By similarity). Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Also plays a role in tumor cell invasion. Phosphorylates PTPN11.

Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 3]: Secreted.

Tissue Location

Detected in T-47D, MDA-MB-175 and HBL-100 breast carcinoma cells, A-431 epidermoid carcinoma cells, SW48 and SNU-C2B colon carcinoma cells and Hs 294T melanoma cells (at protein level) Expressed at low levels in most adult tissues and is highest in the brain, lung, placenta and kidney. Lower levels of expression are detected in melanocytes, heart, liver, skeletal muscle and pancreas Abundant in breast carcinoma cell lines. In the colonic mucosa, expressed in epithelia but not in the connective tissue of the lamina propria. In the thyroid gland, expressed in the epithelium of the thyroid follicles. In pancreas, expressed in the islets of Langerhans cells, but not in the surrounding epithelial cells of the exocrine pancreas. In kidney, expressed in the epithelia of the distal tubules Not expressed in connective tissue, endothelial cells, adipose tissue, muscle cells or cells of hematopoietic origin

Volume

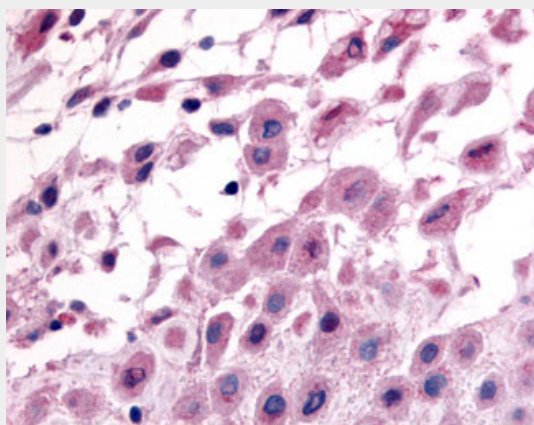
50 µl

NEP / DDR1 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NEP / DDR1 Antibody (Internal) - Images



Anti-DDR1 antibody ALS10598 IHC of human placenta.

NEP / DDR1 Antibody (Internal) - Background

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NEP / DDR1 Antibody (Internal) - References

di Marco E.,et al.J. Biol. Chem. 268:24290-24295(1993).
Johnson J.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:5677-5681(1993).
Laval S.,et al.Cell Growth Differ. 5:1173-1183(1994).
Perez J.L.,et al.Oncogene 9:211-219(1994).
Sakuma S.,et al.FEBS Lett. 398:165-169(1996).