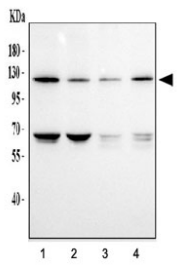
DDR1 Antibody (R30978)

Catalog No.	Formulation	Size
R30978	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q08345
Applications	Western blot: 0.5-1ug/ml
Limitations	This DDR1 antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) K562, 3) A549 and 4) Caco-2 cell lysate with DDR1 antibody. Expected molecular weight: 100-125 kDa.

Description

Discoidin domain receptor family, member 1, also known as NEP, EDDR1, NTRK4, TRKE, DDR, CAK or RTK6, is a human gene. The protein encoded by this gene is a DDR that is widely expressed in normal and transformed epithelial cells and is activated by various types of collagen. This protein belongs to a subfamily of tyrosine kinase receptors with a homology region to the Dictyostelium discoideum protein discoidin I in their extracellular domain. The fibrillar collagens and immobilized collagen activated DDR1 receptor phosphorylation after prolonged treatment. Bhatt et al.(2000) showed that the protein was highly expressed in the cerebellum of developing and adult mouse brain, and that both DDR1 and Collagen IV were highly expressed in the pial layer of the cerebellar cortex. Cocultures of Collagen I- and IV-expressing

mouse pial cells with DDR1-expressing granule cells resulted in granule cell neurite extension. Inhibition of collagen-DDR1 signaling reduced granule cell neurite elongation.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the DDR1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human DDR1/RKT6 (FSQLHRFLAEDALNTV) was used as the immunogen for this DDR1 antibody.

Storage

After reconstitution, the DDR1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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