

Mouse Ddr1 Blocking Peptide (Center)

Synthetic peptide Catalog # BP20672c

Specification

Mouse Ddr1 Blocking Peptide (Center) - Product Information

Primary Accession Q03146

Other Accession <u>063474</u>, <u>008345</u>

Mouse Ddr1 Blocking Peptide (Center) - Additional Information

Gene ID 12305

Other Names

Epithelial discoidin domain-containing receptor 1, Epithelial discoidin domain receptor 1, CD167 antigen-like family member A, Cell adhesion kinase, Discoidin receptor tyrosine kinase, Protein-tyrosine kinase MPK-6, Tyrosine kinase DDR, Tyrosine-protein kinase CAK, CD167a, Ddr1, Cak, Eddr1, Mpk6

Target/Specificity

The synthetic peptide sequence is selected from aa 396-410 of HUMAN Ddr1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Ddr1 Blocking Peptide (Center) - Protein Information

Name Ddr1

Synonyms Cak, Eddr1, Mpk6

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, but also tumor cell invasion. Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Phosphorylates PTPN11 (By similarity). Required for normal blastocyst implantation during pregnancy, for normal mammary gland differentiation and normal lactation. Required for normal ear morphology and normal



hearing.

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Detected in the cochlea and the organ of Corti in the inner ear. Isoform 1 is predominant and is expressed in developing embryo and adult brain. Isoform 2 is expressed in various epithelial cells.

Mouse Ddr1 Blocking Peptide (Center) - Protocols

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

Blocking Peptides

Mouse Ddr1 Blocking Peptide (Center) - Images

Mouse Ddr1 Blocking Peptide (Center) - Background

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Mouse Ddr1 Blocking Peptide (Center) - References

Perez J.L., et al. Oncogene 12:1469-1477(1996). Gilardi-Hebenstreit P., et al. Oncogene 7:2499-2506(1992). Vogel W.F., et al. Mol. Cell. Biol. 21:2906-2917(2001). Hou G., et al. Circ. Res. 90:1147-1149(2002). Gross O., et al. Kidney Int. 66:102-111(2004).