10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DUSP13 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18781b

Specification

DUSP13 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q6B8I1

DUSP13 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 128854680;51207

Other Names
Dual specificity protein phosphatase 13 isoform A, DUSP13A, Branching-enzyme interacting DSP, Muscle-restricted DSP, MDSP, DUSP13, BEDP, DUSP13A, MDSP

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.

DUSP13 Antibody (C-term) Blocking Peptide - Protein Information

Name DUSP13A

Synonyms BEDP, DUSP13, MDSP

Function
Probable protein tyrosine phosphatase. Has phosphatase activity with synthetic substrates (PubMed:15252030, PubMed:29106959). Has a phosphatase activity-independent regulatory role in MAP3K5/ASK1- mediated apoptosis, preventing MAP3K5/ASK1 inhibition by AKT1. Shows no phosphatase activity on MAPK1/ERK2, MAPK8/JNK, MAPK14/p38 and MAP3K5/ASK1.

Cellular Location
Cytoplasm.

Tissue Location
Skeletal muscle specific.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DUSP13 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DUSP13 Antibody (C-term) Blocking Peptide - Images

DUSP13 Antibody (C-term) Blocking Peptide - Background

Members of the protein-tyrosine phosphatase superfamilycooperate with protein kinases to regulate cell proliferation anddifferentiation. This superfamily is separated into two familiesbased on the substrate that is dephosphorylated. One family, thedual specificity phosphatases (DSPs) acts on both phosphotyrosineand phosphoserine/threonine residues. This gene encodes differentbut related DSP proteins through the use of non-overlapping openreading frames, alternate splicing, and presumed differenttranscription promoters. Expression of the distinct proteins fromthis gene has been found to be tissue specific and the proteins maybe involved in postnatal development of specific tissues. A proteinencoded by the upstream ORF was found in skeletal muscle, whereasthe encoded protein from the downstream ORF was found only intestis. In mouse, a similar pattern of expression was found.Multiple alternatively spliced transcript variants were described,but the full-length sequence of only some were determined.

DUSP13 Antibody (C-term) Blocking Peptide - References

Kim, S.J., et al. Proteins 66(1):239-245(2007)Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)Barrios-Rodiles, M., et al. Science 307(5715):1621-1625(2005)Chen, H.H., et al. J. Biol. Chem. 279(40):41404-41413(2004)Deloukas, P., et al. Nature 429(6990):375-381(2004)