TRAK2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TRAK2, Blocking Peptide
Full Product Name	TRAK2 Blocking Peptide
Product Gene Name	TRAK2 blocking peptide
Product Synonym Names	ALS2CR 3; Amyotrophic lateral sclerosis 2 (juvenile) chromosome region candidate 3; Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 3 protein; CALS C; GRIF 1; GRIF1; KIAA0549; OIP98; Trafficking kinesin-binding protein 2; Trafficking protein kinesin binding 2; Trak2; TRAK2_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TRAK2 peptide (MBS9628983) is used for blocking the activity of TRAK2 antibody (MBS9610279)
Molecular Weight	35,815 Da
OMIM	607334
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TRAK2 blocking peptide	Blocking/Control
Related Product Information for TRAK2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of TRAK2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRAK2 purchase	MBS9628983 is a blocking peptide targeting TRAK2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRAK2. It may not necessarily be applicable to this product.

NCBI GI #	188497667
NCBI GeneID	66008
NCBI Accession #	NP_055864.2
UniProt Primary Accession #	O60296
UniProt Secondary Accession #	Q8WVH7; Q96NS2; Q9C0K5; Q9C0K6; E7EV21

UniProt Related Accession #	O60296
GenBank Nucleotide #	NM_015049.2
NCBI Official Full Name	trafficking kinesin-binding protein 2
NCBI Official Synonym Full Names	trafficking kinesin protein 2
NCBI Official Symbol	TRAK2
NCBI Official Synonym Symbols	GRIF1; MILT2; OIP98; CALS-C; GRIF-1; ALS2CR3
UniProt Protein Name	Trafficking kinesin-binding protein 2
UniProt Synonym Protein Names	Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 3 protein
Protein Family	Trafficking kinesin-binding protein
UniProt Gene Name	TRAK2
UniProt Synonym Gene Names	ALS2CR3; KIAA0549
UniProt Entry Name	TRAK2_HUMAN
NCBI Protein Information	trafficking kinesin-binding protein 2
Research Articles on TRAK2	**1.** This study showed that the TRAK2 was more prevalent in dendrites of hippocampal neurons. In cortical neurons, TRAK2 was equally distributed between axons and dendrites.
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