Eg5 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Eg5, Blocking Peptide
Full Product Name	Eg5 Blocking Peptide
Product Gene Name	Eg5 blocking peptide
Product Synonym Gene Name	KIF11
Product Synonym Names	EG5; HKSP; KIF11; KIF11_HUMAN; Kinesin family member 11; Kinesin like protein 1; Kinesin-like protein 1; Kinesin-like protein KIF11; Kinesin-like spindle protein HKSP; Kinesin-related motor protein Eg5; KNSL1; MCLMR; Thyroid receptor-interacting protein 5; TR-interacting protein 5; TRIP-5; TRIP5
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	Eg5 peptide (MBS9616735) is used for blocking the activity of Eg5 antibody (MBS9613453)
Molecular Weight	119,159 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (94352825..94415152). Location: 10q24.1
OMIM	148760
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 Eg5 blocking peptide	Blocking/Control
Related Product Information for Eg5 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 Eg5 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 Eg5 purchase	MBS9616735 is a blocking peptide targeting Eg5.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Eg5. It may not necessarily be applicable to this product.

NCBI GI #	13699824
NCBI GeneID	3832
NCBI Accession #	NP_004514.2

UniProt Primary Accession #	P52732
UniProt Secondary Accession #	Q15716; Q5VWX0; A0AV49; B2RMV3
UniProt Related Accession #	P52732
GenBank Nucleotide #	NM_004523.3
NCBI Official Full Name	kinesin-like protein KIF11
NCBI Official Synonym Full Names	kinesin family member 11
NCBI Official Symbol	KIF11
NCBI Official Synonym Symbols	EG5; HKSP; KNSL1; MCLMR; TRIP5
UniProt Protein Name	Kinesin-like protein KIF11
UniProt Synonym Protein Names	Kinesin-like protein 1; Kinesin-like spindle protein HKSP; Kinesin-related motor protein Eg5; Thyroid receptor-interacting protein 5
Protein Family	Kinesin-like protein
UniProt Gene Name	KIF11
UniProt Synonym Gene Names	EG5; KNSL1; TRIP5; TR-interacting protein 5; TRIP-5
UniProt Entry Name	KIF11_HUMAN
NCBI Protein Information	kinesin-like protein KIF11; TRIP-5; kinesin-like protein 1; TR-interacting protein 5; kinesin-like spindle protein HKSP; kinesin-related motor protein Eg5; thyroid receptor-interacting protein 5
NCBI Summary for Eg5	This gene encodes a motor protein that belongs to the kinesin-like protein family. Members of this protein family are known to be involved in various kinds of spindle dynamics. The function of this gene product includes chromosome positioning, centrosome separation and establishing a bipolar spindle during cell mitosis. [provided by RefSeq, Jul 2008]
UniProt Comments for Eg5	KIF11: a cytoskeletal protein that belongs to the kinesin-like protein family. BimC subfamily. Interacts with the thyroid hormone receptor in the presence of thyroid hormone. Plays a role in chromosome positioning, centrosome separation and establishing a bipolar spindle during cell mitosis. Phosphorylation regulates its association with the spindle apparatus. Protein type: Microtubule-binding; Motor Chromosomal Location of Human Ortholog: 10q24.1 Cellular Component: spindle pole; kinesin complex; microtubule; membrane; spindle microtubule; cytoplasm; spindle; cytosol Molecular Function: plus-end-directed microtubule motor activity; microtubule binding; ATPase activity; protein complex binding; microtubule motor activity; protein kinase binding; ATP binding Biological Process: mitosis; mitotic spindle organization and biogenesis; mitotic centrosome separation; cell division; metabolic process; regulation of mitotic centrosome separation; antigen processing and presentation of exogenous peptide antigen via MHC class II; blood coagulation; spindle organization and biogenesis; microtubule-based movement; chromosome segregation Disease: Microcephaly With Or Without Chorioretinopathy, Lymphedema, Or Mental Retardation
Research Articles on Eg5	**1.** Eg5 directly interacts with NuMA in the vicinity of the spindle poles, although the interaction does not occur in interphase cells.
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