HSPA1L Peptide-Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	HSPA1L, Blocking Peptide
Full Product Name	HSPA1L Peptide-middle region
Product Gene Name	HSPA1L blocking peptide
Product Synonym Names	Msh5; Hsc70t
Sequence	LLQDYFNGRD LNKSINPDEA VAYGAAVQAA ILMGDKSEKV QDLLLLDVAP
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	HSPA1L peptide (MBS3249482) is used for blocking the activity of HSPA1L antibody (MBS3249808)
Molecular Weight	70kDa
Quality Control	The peptide is characterized by mass spectroscopy
Protein Size	641 amino acids
Related Product Information for HSPA1L blocking peptide	This is a synthetic peptide designed for use in combination with anti-HSPA1L Antibody. It may block above mentioned antibody from binding to its target protein in western blot and/or immunohistochecmistry under proper experimental settings. Description of Target: Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. It goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release. Positive regulator of PRKN translocation to damaged mitochondria.
Other Notes	Small volumes of HSPA1L 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 HSPA1L purchase	MBS3249482 is a blocking peptide targeting HSPA1L. Also known as HSPA1L Peptide-middle region. Reactive in Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSPA1L. It may not necessarily be applicable to this product.

NCBI GeneID	15482
NCBI Accession #	NM_013558.2
UniProt Primary Accession #	P16627
UniProt Related Accession #	NP_038586.2

UniProt Protein Name	Heat shock 70 kDa protein 1-like
UniProt Synonym Protein Names	Heat shock 70 kDa-like protein 1; Spermatid-specific heat shock protein 70
Protein Family	Heat shock 70 kDa protein
UniProt Gene Name	Hspa1l
UniProt Synonym Gene Names	Hsc70t; Heat shock 70 kDa protein 1L
UniProt Entry Name	HS71L_MOUSE
UniProt Comments for HSPA1L	HSPA1L: In cooperation with other chaperones, Hsp70s stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. These chaperones participate in all these processes through their ability to recognize nonnative conformations of other proteins. They bind extended peptide segments with a net hydrophobic character exposed by polypeptides during translation and membrane translocation, or following stress-induced damage. Not induced by heat shock. Expressed in spermatids. Belongs to the heat shock protein 70 family. Protein type: Heat shock protein; Chaperone; Mitochondrial Cellular Component: signalosome; cytosol Molecular Function: unfolded protein binding; nucleotide binding; ATP binding Biological Process: binding of sperm to zona pellucida; multicellular organismal development; spermatogenesis; protein refolding; cell differentiation
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