HSPA13 Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	HSPA13/STCH, Polyclonal Antibody
Full Product Name	Goat anti-HSPA13/STCH (aa83-95) Antibody
Product Gene Name	anti-HSPA13 antibody
Product Synonym Gene Name	STCH
Product Synonym Names	HSPA13; heat shock protein 70kDa family, member 13; STCH; heat shock 70 kDa protein 13; microsomal stress 70 protein ATPase core; microsomal stress-70 protein ATPase core; stress 70 protein chaperone, microsome-associated, 60kD; stress 70 protein chaperon; HSPA13 antibody; heat shock protein 70kDa family; member 13 antibody; STCH antibody; heat shock 70 kDa protein 13 antibody; microsomal stress 70 protein ATPase core antibody; microsomal stress-70 protein ATPase core antibody; stress 70 protein chaperone; microsome-associated; 60kD antibody; stress 70 protein chaperone; microsome-associated; 60kDa antibody; stress-70 protein chaperone microsome-associated 60 kDa protein antibody; HSPA13 / STCH (aa83-95)
Immunogen Sequence	ESVELADSNP QNT
Clonality	Polyclonal
Host	Goat
Species Reactivity	Tested: Human; Expected from sequence similarity: Human
Form/Format	Supplied at 0.5 mg/ml in Tris saline, 0. 02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Concentration	100ug specific antibody in 200ul (lot specific)
Preparation and Storage	Aliquot and store at -20 degree C. Minimize freezing and thawing.
Antibody/Peptide Pairs	HSPA13 / STCH peptide (MBS427804) is used for blocking the activity of HSPA13/STCH antibody (MBS423088)
Molecular Weight	51,927 Da
OMIM	601100
Immunogen	Peptide with sequence C-ESVELADSNPQNT, from the internal region of the protein sequence according to NP_008879.3.
Epitope	Internal region
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Applications Tested/Suitable for anti-HSPA13 antibody	Peptide ELISA (EIA), Western Blot (WB)
Application Notes for anti-HSPA13 antibody	Peptide ELISA: Antibody detection limit dilution 1: 128000. Western Blot: Approx 65kDa band observed in Human Uterus lysates (calculated MW of 51.9kDa according to NP_008879.3). The protein is commonly known as a 60 or 70kDa heat shock protein (see nomenclaure). Recommended concentration: 0.1-0.3ug/ml.
Related Product Information for anti-HSPA13 antibody	MBS423088 is an antibody targeting HSPA13. Also known as Goat anti-HSPA13/STCH (aa83-95) Antibody. Reactive in Tested: Human; Expected from sequence similarity: Human. Host: Goat.
Other Notes	Small volumes of anti-HSPA13 antibody 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.



Western Blot (WB) of anti-HSPA13 antibody
(0.1ug/ml) staining of Human Uterus lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSPA13. It may not necessarily be applicable to this product.

NCBI GI #	48928056
NCBI GeneID	6782
NCBI Accession #	NP_008879.3
UniProt Secondary Accession #	Q8NE40; B2R616
UniProt Related Accession #	P48723
GenBank Nucleotide #	NM_006948.4
NCBI Official Full Name	heat shock 70 kDa protein 13
NCBI Official Synonym Full Names	heat shock protein family A (Hsp70) member 13
NCBI Official Symbol	HSPA13
NCBI Official Synonym Symbols	STCH
UniProt Protein Name	Heat shock 70 kDa protein 13
UniProt Synonym Protein Names	Microsomal stress-70 protein ATPase core; Stress-70 protein chaperone microsome-associated 60 kDa protein
Protein Family	Heat shock 70 kDa protein
UniProt Gene Name	HSPA13
UniProt Synonym Gene Names	STCH
UniProt Entry Name	HSP13_HUMAN
NCBI Protein Information	heat shock 70 kDa protein 13
NCBI Summary for HSPA13	The protein encoded by this gene is a member of the heat shock protein 70 family and is found associated with microsomes. Members of this protein family play a role in the processing of cytosolic and secretory proteins, as well as in the removal of denatured or incorrectly-folded proteins. The encoded protein contains an ATPase domain and has been shown to associate with a ubiquitin-like protein. [provided by RefSeq, Jul 2008]

UniProt Comments for HSPA13	HSPA13: Has peptide-independent ATPase activity. Belongs to the heat shock protein 70 family. Protein type: Heat shock protein Chromosomal Location of Human Ortholog: 21q11 Cellular Component: endoplasmic reticulum; intracellular membrane-bound organelle Molecular Function: ATP binding; protein binding
Research Articles on HSPA13	**1.** novel role of STCH in the regulation of pHi through site-specific interactions with NBCe1-B and NHE1 and subsequent modulation of membrane transporter expression.
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