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HM13 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14392b

Specification

HM13 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q8TCT9
Other Accession	NP_110416.1, NP_848697.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**41488**
Antigen Region	**325-354**

HM13 Antibody (C-term) - Additional Information

Gene ID 81502

Other Names
Minor histocompatibility antigen H13, 3423-, Intramembrane protease 1, IMP-1, IMPAS-1, hIMP1, Presenilin-like protein 3, Signal peptide peptidase, HM13, H13, IMP1, PSL3, SPP

Target/Specificity
This HM13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 325-354 amino acids from the C-terminal region of human HM13.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HM13 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HM13 Antibody (C-term) - Protein Information

Name HM13 (HGNC:16435)

Function Catalyzes intramembrane proteolysis of signal peptides that have been removed from precursors of secretory and membrane proteins, resulting in the release of the fragment from the ER membrane into the cytoplasm (PubMed:12077416). Required to generate lymphocyte cell surface (HLA-E) epitopes derived from MHC class I signal peptides (PubMed:11714810). May be necessary for the removal of the signal peptide that remains attached to the hepatitis C virus core protein after the initial proteolytic processing of the polyprotein (PubMed:12145199). Involved in the intramembrane cleavage of the integral membrane protein PSEN1 (PubMed:11714810, PubMed:12077416, PubMed:14741365). Cleaves the integral membrane protein XBP1 isoform 1 in a DERL1/RNF139-dependent manner (PubMed:25239945). May play a role in graft rejection (By similarity).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein. Membrane; Multi-pass membrane protein; Lumenal side

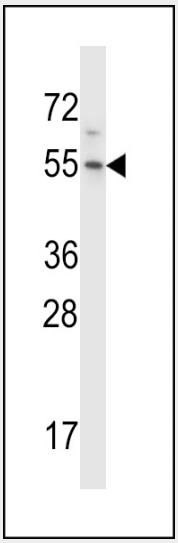
Tissue Location
Widely expressed with highest levels in kidney, liver, placenta, lung, leukocytes and small intestine and reduced expression in heart and skeletal muscle. Expressed abundantly in the CNS with highest levels in thalamus and medulla

HM13 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HM13 Antibody (C-term) - Images



HM13 Antibody (C-term) (Cat. #AP14392b) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the HM13 antibody detected the HM13 protein (arrow).

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HM13 Antibody (C-term) - Background

The protein encoded by this gene, which localizes to the endoplasmic reticulum, catalyzes intramembrane proteolysis of some signal peptides after they have been cleaved from a preprotein. This activity is required to generate signal sequence-derived human lymphocyte antigen-E epitopes that are recognized by the immune system, and to process hepatitis C virus core protein. The encoded protein is an integral membrane protein with sequence motifs characteristic of the presenilin-type aspartic proteases. Multiple transcript variants encoding several different isoforms have been found for this gene.

HM13 Antibody (C-term) - References

Sato, T., et al. Biochemistry 45(28):8649-8656(2006)
Loureiro, J., et al. Nature 441(7095):894-897(2006)
Urny, J., et al. Biochim. Biophys. Acta 1759 (3-4), 159-165 (2006) :
Friedmann, E., et al. J. Biol. Chem. 279(49):50790-50798(2004)
Soares, M.R., et al. FEBS Lett. 560 (1-3), 134-140 (2004) :