

H13 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI13107

Product Information

Application	WB
Primary Accession	Q9D8V0
Other Accession	NM_010376 , NP_034506
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41748

Additional Information

Gene ID	14950
Alias Symbol	1200006O09Rik, 4930443L17Rik, 5031424B04Rik, AV020344, H-13, Hm13, PSL3, Spp
Other Names	Minor histocompatibility antigen H13, 3.4.23.-, Presenilin-like protein 3, Signal peptide peptidase, Hm13, H13, Psl3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-H13 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	H13 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

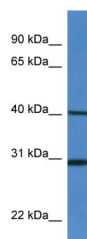
Name	Hm13 {ECO:0000250 UniProtKB:Q8TCT9}
Function	Catalyzes intramembrane proteolysis of signal peptides that have been removed from precursors of secretory and membrane proteins, resulting in the release of the fragment from the ER membrane into the cytoplasm (By similarity). Required to generate lymphocyte cell surface (HLA-E) epitopes derived from MHC class I signal peptides. Involved in the intramembrane cleavage of the integral membrane protein PSEN1. Cleaves the integral membrane protein XBP1 isoform 1 in a DERL1/RNF139- dependent manner (By similarity). May play a role in graft rejection (PubMed: 9354467).

Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Membrane {ECO:0000250 UniProtKB:Q8TCT9}; Multi-pass membrane protein {ECO:0000250 UniProtKB:Q8TCT9}; Luminal side {ECO:0000250 UniProtKB:Q8TCT9}
Tissue Location	Widely expressed with highest levels in liver and kidney. In the brain, expressed predominantly in hippocampus, amygdala, piriform cortex, choroid plexus and arcuate nucleus of the hypothalamic area. Isoform 1 is more strongly expressed than isoform 4 in most tissues except brain and skeletal muscle where isoform 4 is the dominant isoform and in testis where isoform 1 and isoform 4 are expressed at similar levels. In the brain, isoform 4 is not detected in the choroid plexus.

References

Urny J.,et al.Gene Expr. Patterns 3:685-691(2003).
 Urny J.,et al.Biochim. Biophys. Acta 1759:159-165(2006).
 Irmeler M.,et al.Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.
 Brown A.C.,et al.Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
 Carninci P.,et al.Science 309:1559-1563(2005).

Images



WB Suggested Anti-H13 Antibody Titration: 1.0 µg/ml
 Positive Control: Mouse Spleen

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.