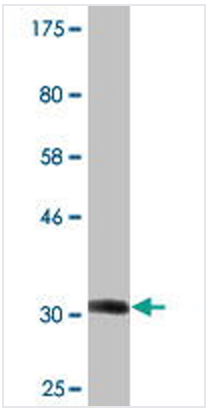
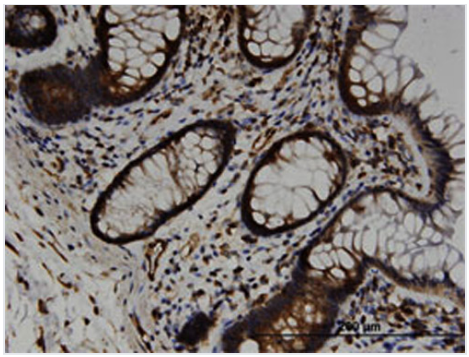
TRAM2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

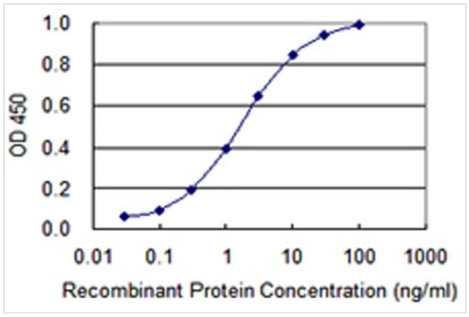
Product Name	TRAM2, Monoclonal Antibody
Full Product Name	TRAM2 (Translocating Chain-associated Membrane Protein 2, KIAA0057) APC
Product Gene Name	anti-TRAM2 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3G6
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human TRAM2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	608485
3D Structure	ModBase 3D Structure for Q15035
Immunogen	Partial recombinant corresponding to aa310-369 from TRAM2 (NP_036420) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	FIHSQLRHWREYWNEQSAKRRVPATPRLPARLIKRESGYHENGVVKAENGTSPRTKKLKS
Conjugate	APC
Product Categories/Family for anti-TRAM2 antibody	Antibodies; Membrane Proteins
Applications Tested/Suitable for anti-TRAM2 antibody	ELISA (EIA), Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-TRAM2 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-TRAM2 antibody	MBS6139599 is an antibody targeting TRAM2. Also known as TRAM2 (Translocating Chain-associated Membrane Protein 2, KIAA0057) APC. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-TRAM2 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-TRAM2 antibody
Western Blot detection against Immunogen (32.34kD).



Immunohistochemistry (IHC) of anti-TRAM2 antibody
Immunoperoxidase of monoclonal antibody to TRAM2 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3ug/ml]



Testing Data of anti-TRAM2 antibody
Detection limit for recombinant GST tagged TRAM2 is 0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRAM2. It may not necessarily be applicable to this product.

NCBI GI #	1519246245
NCBI GeneID	9697
NCBI Accession #	NM_012288.4
UniProt Primary Accession #	Q15035
UniProt Related Accession #	Q15035
GenBank Nucleotide #	NM_012288
NCBI Official Full Name	Homo sapiens translocation associated membrane protein 2 (TRAM2), mRNA
NCBI Official Synonym Full Names	translocation associated membrane protein 2
NCBI Official Symbol	TRAM2
UniProt Protein Name	Translocating chain-associated membrane protein 2
Protein Family	Translocating chain-associated membrane protein
UniProt Gene Name	TRAM2
UniProt Synonym Gene Names	KIAA0057
NCBI Protein Information	translocating chain-associated membrane protein 2
NCBI Summary for TRAM2	TRAM2 is a component of the translocon, a gated macromolecular channel that controls the posttranslational processing of nascent secretory and membrane proteins at the endoplasmic reticulum (ER) membrane.[supplied by OMIM, Jul 2004]

UniProt Comments for TRAM2	Necessary for collagen type I synthesis. May couple the activity of the ER Ca2+ pump SERCA2B with the activity of the translocon. This coupling may increase the local Ca2+ concentration at the site of collagen synthesis, and a high Ca2+ concentration may be necessary for the function of molecular chaperones involved in collagen folding. Required for proper insertion of the first transmembrane helix N-terminus of TM4SF20 into the ER lumen, may act as a ceramide sensor for regulated alternative translocation (RAT) (PubMed:27499293).
Research Articles on TRAM2	**1.** results support a role of DAP12 in stabilizing TREM2-CTF, thereby protecting against excessive pro-inflammatory responses.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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