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Anti-TRAM1 Antibody

Catalog # ABO11317

Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	Q15629
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Translocating chain-associated membrane protein 1(TRAM1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	23471
Other Names	Translocating chain-associated membrane protein 1, TRAM1, TRAM
Calculated MW	43072
Application Details	Immunocytochemistry , 0.5-1 □g/ml, Human, Mouse, Rat Immunohistochemistry(Frozen Section), 0.5-1 □g/ml, Rat, Human, Mouse Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 □g/ml, Human, Rat, Mouse
Subcellular Localization	Endoplasmic reticulum membrane; Multi-pass membrane protein.
Source	Eukaryota
Protein Name	Translocating chain-associated membrane protein 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TRAM1(314-331aa KFINFQLRRWREHSAFQA), identical to the related rat and mouse sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the TRAM family.

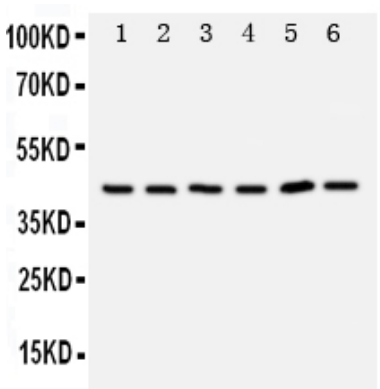
Protein Information

Name	TRAM1 (HGNC:20568)
Function	Involved in the translocation of nascent protein chains into or through the endoplasmic reticulum (ER) membrane by facilitating the proper chain positioning at the SEC61 channel (PubMed:12475939, PubMed:1315422, PubMed:32013668, PubMed:8616892, PubMed:9506517). Regulates the exposure of nascent secretory protein chain to the cytosol during translocation into the ER (PubMed:9506517). May affect the phospholipid bilayer in the vicinity of the lateral gate of the SEC61 channel, thereby facilitating ER protein transport (PubMed:32013668). Intimately associates with transmembrane (TM) domain of nascent membrane proteins during the entire integration process into the ER membrane (PubMed:8616892). Associates with the second TM domain of G protein-coupled receptor opsin/OPSD nascent chain in the ER membrane, which may facilitate its integration into the membrane (PubMed:12475939). Under conditions of ER stress, participates in the disposal of misfolded ER membrane proteins during the unfolded protein response (UPR), an integrated stress response (ISR) pathway, by selectively retrotranslocating misfolded ER-membrane proteins from the ER into the cytosol where they are ubiquitinated and degraded by the proteasome (PubMed:20430023).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein

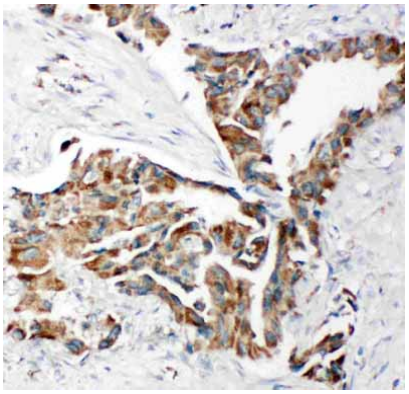
Background

TRAM1(Translocation-Associating Membrane Protein 1), By crosslinking and reconstitution of canine proteoliposomes, followed by microsequencing and PCR screening of canine kidney and HeLa cell cDNA libraries, Gorlich et al.(1992) isolated cDNAs encoding TRAM(translocating chain-associating membrane protein). The International Radiation Hybrid Mapping Consortium mapped the TRAM gene to chromosome 8. Sequence analysis predicted that human TRAM is a 374-amino acid, 8-pass transmembrane protein that shares 95% amino acid identity with the canine protein. Functional analysis indicated that TRAM influences glycosylation and is stimulatory or required for the translocation of secretory proteins.

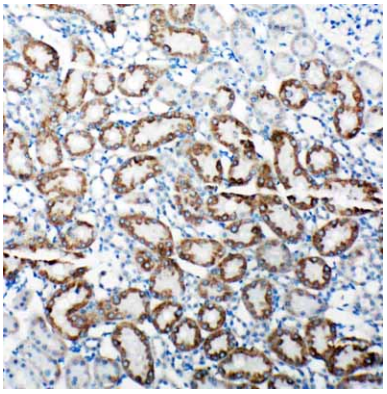
Images



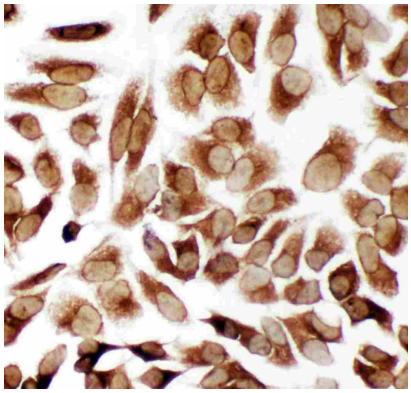
Anti-TRAM1 antibody, ABO11317, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Kidney Tissue LysateLane 3: 293T Cell LysateLane 4: RAJI Cell LysateLane 5: JURKAT Cell Lysate



Anti-TRAM1 antibody, ABO11317, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti-TRAM1 antibody, ABO11317, IHC(P)IHC(P): Rat Kidney Tissue



Anti-TRAM1 antibody, ABO11317, ICCICC: HELA Cell

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