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TRAM1 Antibody (aa310-374)

Rabbit Polyclonal Antibody

Catalog # ALS16250

Specification

TRAM1 Antibody (aa310-374) - Product Information

Application	**WB, ICC**
Primary Accession	Q15629
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**43kDa KDa**

TRAM1 Antibody (aa310-374) - Additional Information

Gene ID 23471

Other Names
Translocating chain-associated membrane protein 1, TRAM1, TRAM

Target/Specificity
Human TRAM1

Reconstitution & Storage
Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Precautions
TRAM1 Antibody (aa310-374) is for research use only and not for use in diagnostic or therapeutic procedures.

TRAM1 Antibody (aa310-374) - 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:1315422, PubMed:8616892, PubMed:9506517, PubMed:12475939, PubMed:32013668). 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).

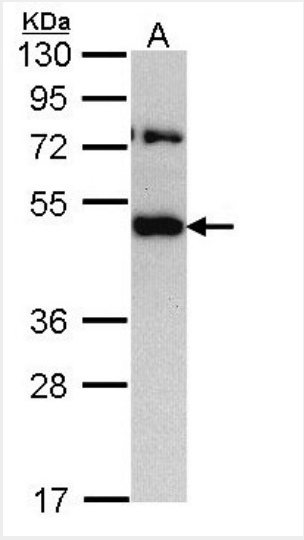
Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

TRAM1 Antibody (aa310-374) - Protocols

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

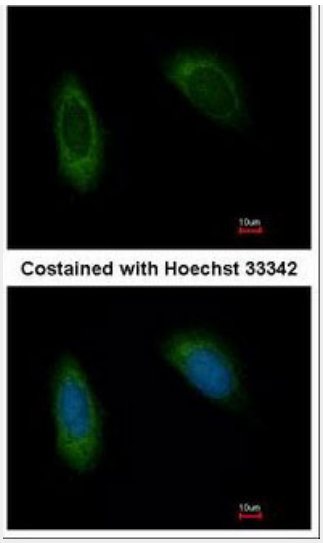
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRAM1 Antibody (aa310-374) - Images



Sample (30 ug of whole cell lysate). A: H1299. 10% SDS PAGE. TRAM1 antibody diluted at 1:1000.

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Immunofluorescence of methanol-fixed HeLa using TRAM1 antibody at 1:500 dilution.

TRAM1 Antibody (aa310-374) - Background

Stimulatory or required for the translocation of secretory proteins across the ER membrane.

TRAM1 Antibody (aa310-374) - References

Goerlich D.,et al.Nature 357:47-52(1992).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Olsen J.V.,et al.Cell 127:635-648(2006).
Daub H.,et al.Mol. Cell 31:438-448(2008).