

**TRAM1 Antibody (aa310-374)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16250****Specification**

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**TRAM1 Antibody (aa310-374) - Product Information**

Application	WB, ICC
Primary Accession	<a href="#">Q15629</a>
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:[12475939](http://www.uniprot.org/citations/12475939), PubMed:[1315422](http://www.uniprot.org/citations/1315422), PubMed:[32013668](http://www.uniprot.org/citations/32013668), PubMed:[8616892](http://www.uniprot.org/citations/8616892), PubMed:[9506517](http://www.uniprot.org/citations/9506517)). Regulates the exposure of nascent secretory protein chain to the cytosol during translocation into the ER (PubMed:[9506517](http://www.uniprot.org/citations/9506517)). May affect the phospholipid bilayer in the vicinity of the lateral gate of the SEC61 channel, thereby facilitating ER protein transport (PubMed:[32013668](http://www.uniprot.org/citations/32013668)). Intimately associates with transmembrane (TM) domain of

nascent membrane proteins during the entire integration process into the ER membrane (PubMed:[8616892](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/20430023)).

### Cellular Location

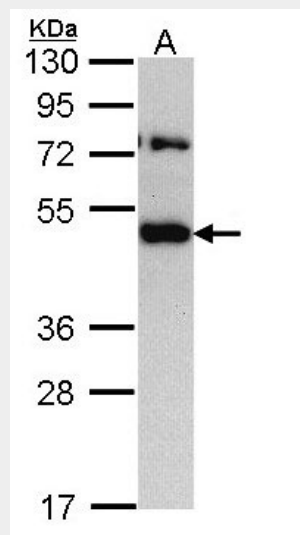
Endoplasmic reticulum membrane; Multi-pass membrane protein

### TRAM1 Antibody (aa310-374) - Protocols

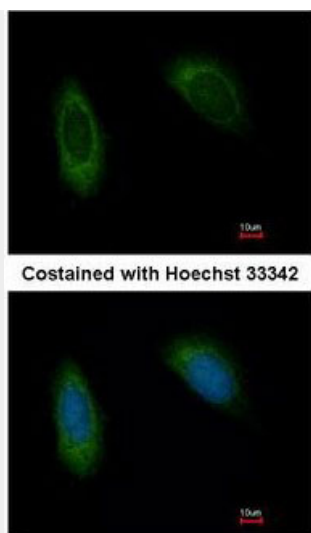
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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.



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).