

TOM1 Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI16049**Specification**

TOM1 Antibody - C-terminal region - Product Information

Application	WB
Primary Accession	O60784
Other Accession	NP_005479
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54kDa KDa

TOM1 Antibody - C-terminal region - Additional Information**Gene ID** 10043

Alias Symbol	TOM1,
Other Names	
Target of Myb protein 1, TOM1	

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 µl of distilled water. Final Anti-TOM1 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

TOM1 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

TOM1 Antibody - C-terminal region - Protein Information**Name** TOM1 ([HGNC:11982](#))**Function**

Adapter protein that plays a role in the intracellular membrane trafficking of ubiquitinated proteins, thereby participating in autophagy, ubiquitination-dependent signaling and receptor recycling pathways (PubMed: [14563850](http://www.uniprot.org/citations/14563850), PubMed: [15047686](http://www.uniprot.org/citations/15047686), PubMed: [23023224](http://www.uniprot.org/citations/23023224), PubMed: [25588840](http://www.uniprot.org/citations/25588840), PubMed: [26320582](http://www.uniprot.org/citations/26320582), PubMed: [31371777](http://www.uniprot.org/citations/31371777)). Acts as a MYO6/Myosin VI adapter protein that targets MYO6 to endocytic structures (PubMed: [23023224](http://www.uniprot.org/citations/23023224))

target="_blank">23023224). Together with MYO6, required for autophagosomal delivery of endocytic cargo, the maturation of autophagosomes and their fusion with lysosomes (PubMed:23023224). MYO6 links TOM1 with autophagy receptors, such as TAX1BP1; CALCOCO2/NDP52 and OPTN (PubMed:31371777). Binds to polyubiquitinated proteins via its GAT domain (PubMed:14563850). In a complex with TOLLIP, recruits ubiquitin-conjugated proteins onto early endosomes (PubMed:15047686). The Tom1-Tollip complex may regulate endosomal trafficking by linking polyubiquitinated proteins to clathrin (PubMed:14563850, PubMed:15047686). Mediates clathrin recruitment to early endosomes by ZFYVE16 (PubMed:15657082). Modulates binding of TOLLIP to phosphatidylinositol 3-phosphate (PtdIns(3)P) via binding competition; the association with TOLLIP may favor the release of TOLLIP from endosomal membranes, allowing TOLLIP to commit to cargo trafficking (PubMed:26320582). Acts as a phosphatidylinositol 5-phosphate (PtdIns(5)P) effector by binding to PtdIns(5)P, thereby regulating endosomal maturation (PubMed:25588840). PtdIns(5)P-dependent recruitment to signaling endosomes may block endosomal maturation (PubMed:25588840). Also inhibits Toll-like receptor (TLR) signaling and participates in immune receptor recycling (PubMed:15047686, PubMed:26320582).

Cellular Location

Cytoplasm. Endosome membrane; Peripheral membrane protein. Early endosome membrane; Peripheral membrane protein. Note=Localized to endo/exosomal vesicles (PubMed:31263572). Enriched on signaling endosomes (PubMed:25588840). Recruited to early endosomes by TOLLIP and by PtdIns(5)P (PubMed:15047686, PubMed:25588840, PubMed:26320582)

Tissue Location

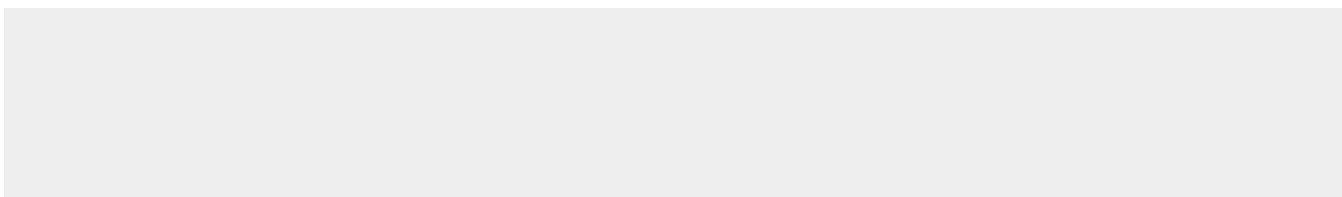
Widely expressed. Highly expressed in skeletal muscle, heart, placenta and liver.

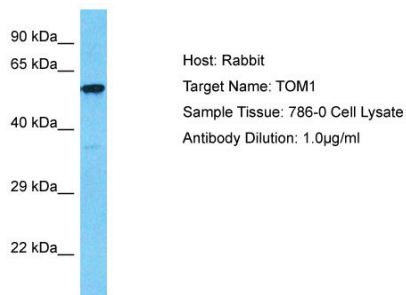
TOM1 Antibody - C-terminal region - Protocols

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](#)

TOM1 Antibody - C-terminal region - Images





Host: Rabbit
Target Name: TOM1
Sample Tissue: 786-0 Whole cell lysate
s
Antibody Dilution: 1.0µg/ml

TOM1 Antibody - C-terminal region - Background

May be involved in intracellular trafficking. Probable association with membranes.

TOM1 Antibody - C-terminal region - References

Seroussi E.,et al.Genomics 57:380-388(1999).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham I.,et al.Nature 402:489-495(1999).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.