

**TOM1 antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI13362****Specification**

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**TOM1 antibody - middle region - Product Information**

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| Application       | WB                                                                 |
| Primary Accession | <a href="#">O60784</a>                                             |
| Other Accession   | <a href="#">NM_005488</a> , <a href="#">NP_005479</a>              |
| Reactivity        | Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog          |
| Predicted         | Human, Mouse, Rat, Rabbit, Chicken, Horse, Bovine, Guinea Pig, Dog |
| Host              | Rabbit                                                             |
| Clonality         | Polyclonal                                                         |
| Calculated MW     | 54kDa KDa                                                          |

**TOM1 antibody - middle region - Additional Information****Gene ID** 10043

|                               |          |
|-------------------------------|----------|
| Alias Symbol                  | FLJ33404 |
| <b>Other Names</b>            |          |
| 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 ul 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 - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**TOM1 antibody - middle 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))

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

#### 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

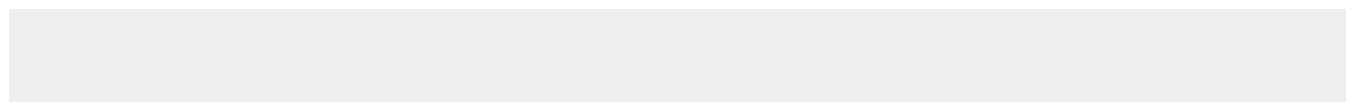
Widely expressed. Highly expressed in skeletal muscle, heart, placenta and liver.

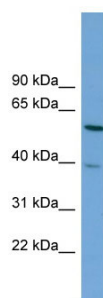
### TOM1 antibody - middle region - Protocols

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 - middle region - Images





WB Suggested Anti-TOM1 Antibody Titration: 0.2-1  $\mu$ g/ml

ELISA Titer: 1:1562500

Positive Control: U937 cell lysate

### **TOM1 antibody - middle 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.