

### TRIB1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7726b

## Specification

# **TRIB1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<u>Q96RU8</u>
Other Accession	<u>Q8K4K4</u>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	341-370

## **TRIB1** Antibody (C-term) - Additional Information

### Gene ID 10221

# **Other Names**

Tribbles homolog 1, TRB-1, G-protein-coupled receptor-induced gene 2 protein, GIG-2, SKIP1, TRIB1 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=16891" target="\_blank">HGNC:16891</a>)

#### Target/Specificity

This TRIB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 341-370 amino acids from the C-terminal region of human TRIB1.

Dilution WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

TRIB1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## TRIB1 Antibody (C-term) - Protein Information

Name TRIB1 (<u>HGNC:16891</u>)



**Function** Adapter protein involved in protein degradation by interacting with COP1 ubiquitin ligase (PubMed:<u>27041596</u>). The COP1- binding motif is masked by autoinhibitory interactions with the protein kinase domain (PubMed:<u>26455797</u>). Serves to alter COP1 substrate specificity by directing the activity of COP1 toward CEBPA (PubMed:<u>27041596</u>). Binds selectively the recognition sequence of CEBPA (PubMed:<u>26455797</u>). Regulates myeloid cell differentiation by altering the expression of CEBPA in a COP1-dependent manner (By similarity). Controls macrophage, eosinophil and neutrophil differentiation via the COP1-binding domain (By similarity). Interacts with MAPK kinases and regulates activation of MAP kinases, but has no kinase activity (PubMed:<u>15299019</u>, PubMed:<u>26455797</u>).

**Tissue Location** 

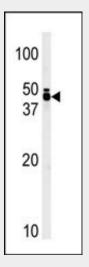
Expressed in most human tissues with the highest levels in skeletal muscle, thyroid gland, pancreas, peripheral blood leukocytes, and bone marrow.

## **TRIB1 Antibody (C-term) - Protocols**

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

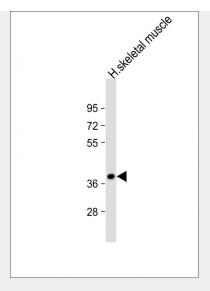
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

TRIB1 Antibody (C-term) - Images

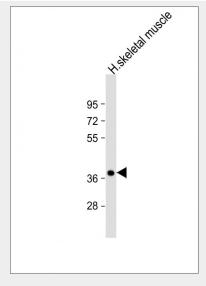


Western blot analysis of anti-TRIB1 Pab (AP7726b) in T47D cell line lysate (35ug/lane). TRIB1(arrow) was detected using the purified Pab.





Anti-TRIB1 Antibody C-term at 1:2000 dilution + human skeletal muscle lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-TRIB1 Antibody C-term at 1:2000 dilution + human skeletal muscle lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## TRIB1 Antibody (C-term) - Background

TRIB1 antibody, also called gprotein coupled receptor induced, skip1, gig2, c8fwATP, functions in binding protein binding, protein kinase inhibitor activity, and protein serine/threonine kinase activities.

Overexpression of TRIB1 in HeLa cells repressed the basal activity of the IL8 promoter by inhibiting AP1 activity. Overexpression of TRIB1 inhibited oncogenic Ras -driven AP1 activation and MEKK1-mediated AP1 activation. ERK activation was enhanced by TRIB1. Coimmunoprecipitation and yeast 2-hybrid assays showed that MEK1 interacted with both TRIB1 and TRIB3, and MKK4 interacted specifically with TRIB1. Cotransfection of MKK4 enhanced the level of TRIB1, indicating that the TRIB-MAPKK interaction stabilized TRIB1.

## TRIB1 Antibody (C-term) - References



Kiss-Toth, E., et al., J. Biol. Chem. 279(41):42703-42708 (2004). Wu, M., et al., J. Biol. Chem. 278(29):27072-27079 (2003). Wilkin, F., et al., Eur. J. Biochem. 248(3):660-668 (1997). **TRIB1 Antibody (C-term) - Citations** 

- An improvement in skeletal muscle mitochondrial capacity with short-term aerobic training is associated with changes in Tribbles 1 expression
- Sin3A-associated protein, 18 kDa, a novel binding partner of TRIB1, regulates MTTP expression.
- TRIB1 downregulates hepatic lipogenesis and glycogenesis via multiple molecular interactions.
- Identification of tribbles-1 as a novel binding partner of Foxp3 in regulatory T cells.