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TRIB1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7726b

Specification

TRIB1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q96RU8

TRIB1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 10221

Other Names
Tribbles homolog 1, TRB-1, G-protein-coupled receptor-induced gene 2 protein, GIG-2, SKIP1, TRIB1 (HGNC:16891)

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7726b was selected from the C-term region of human TRIB1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TRIB1 Antibody (C-term) Blocking Peptide - Protein Information

Name TRIB1 (HGNC:16891)

Function
Adapter protein involved in protein degradation by interacting with COP1 ubiquitin ligase (PubMed:27041596). The COP1- binding motif is masked by autoinhibitory interactions with the protein kinase domain (PubMed:26455797). Serves to alter COP1 substrate specificity by directing the activity of COP1 toward CEBPA (PubMed:27041596). Binds selectively the recognition sequence of CEBPA (PubMed:26455797). 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:15299019, PubMed:26455797).

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) Blocking Peptide - Protocols

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

- Blocking Peptides

TRIB1 Antibody (C-term) Blocking Peptide - Images

TRIB1 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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).