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TAX1BP1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP16130c

Specification

TAX1BP1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q86VP1

TAX1BP1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8887

Other Names
Tax1-binding protein 1, TRAF6-binding protein, TAX1BP1, T6BP

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.

TAX1BP1 Antibody (Center) Blocking Peptide - Protein Information

Name TAX1BP1

Synonyms T6BP

Function
Ubiquitin-binding adapter that participates in inflammatory, antiviral and innate immune processes as well as selective autophagy regulation (PubMed:30459273, PubMed:29940186, PubMed:30909570). Plays a key role in the negative regulation of NF-kappa-B and IRF3 signalings by acting as an adapter for the ubiquitin-editing enzyme A20/TNFAIP3 to bind and inactivate its substrates (PubMed:17703191). Disrupts the interactions between the E3 ubiquitin ligase TRAF3 and TBK1/IKBKE to attenuate 'Lys63'-linked polyubiquitination of TBK1 and thereby IFN- beta production (PubMed:21885437). Recruits also A20/TNFAIP3 to ubiquitinated signaling proteins TRAF6 and RIPK1, leading to their deubiquitination and disruption of IL-1 and TNF-induced NF-kappa-B signaling pathways (PubMed:17703191). Inhibits virus-induced apoptosis by inducing the 'Lys-48'-linked polyubiquitination and degradation of MAVS via recruitment of the E3 ligase ITCH, thereby attenuating MAVS- mediated apoptosis

signaling (PubMed:27736772). As a macroautophagy/autophagy receptor, facilitates the xenophagic clearance of pathogenic bacteria such as Salmonella typhimurium and Mycobacterium tuberculosis (PubMed:26451915). Upon NBR1 recruitment to the SQSTM1- ubiquitin condensates, acts as the major recruiter of RB1CC1 to these ubiquitin condensates to promote their autophagic degradation (PubMed:33226137, PubMed:34471133). Mediates the autophagic degradation of other substrates including TICAM1 (PubMed:28898289).

Cellular Location
Cytoplasm. Mitochondrion. Preautophagosomal structure Cytoplasmic vesicle, autophagosome

Tissue Location
Expressed in all tissues tested.

TAX1BP1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

TAX1BP1 Antibody (Center) Blocking Peptide - Images

TAX1BP1 Antibody (Center) Blocking Peptide - Background

The HTLV-1 Tax protein transcriptionally activates theHTLV-1 promoter. Tax also binds to and stimulates the expression ofcellular genes, including transcription factors and other proteins(Gachon et al., 1998 [PubMed 9733879]).

TAX1BP1 Antibody (Center) Blocking Peptide - References

Parvatiyar, K., et al. J. Biol. Chem. 285(20):14999-15009(2010)Ruiz, M.T., et al. Braz J Otorhinolaryngol 76(2):193-198(2010)Shembade, N., et al. Science 327(5969):1135-1139(2010)Dieguez-Gonzalez, R., et al. Ann. Rheum. Dis. 68(4):579-583(2009)Shembade, N., et al. EMBO J. 28(5):513-522(2009)