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KD-Validated Anti-Tax1 binding protein 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1055

Specification

KD-Validated Anti-Tax1 binding protein 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q86VP1
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 91 kDa , observed, 91 kDa KDa**
Gene Name	**TAX1BP1**
Aliases	**TAX1BP1; Tax1 Binding Protein 1; CALCOCO3; TXBP151; Tax1 (Human T-Cell Leukemia Virus Type I) Binding Protein 1; Tax1-Binding Protein 1; TRAF6-Binding Protein; T6BP**
Immunogen	**A synthesized peptide derived from human TRAF6BP**

KD-Validated Anti-Tax1 binding protein 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**8887**

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

KD-Validated Anti-Tax1 binding protein 1 Rabbit Monoclonal Antibody - 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:29940186, PubMed:30459273, 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). Also recruits

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

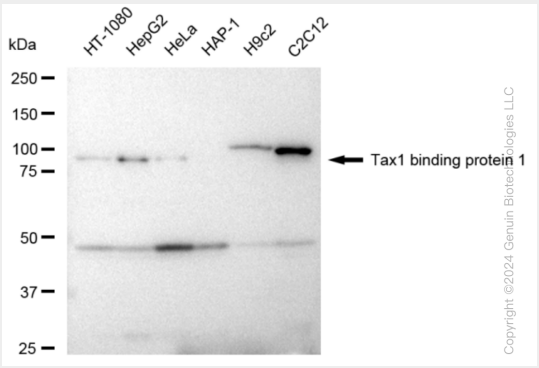
Tissue Location
Expressed in all tissues tested.

KD-Validated Anti-Tax1 binding protein 1 Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Tax1 binding protein 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Tax1 binding protein 1 antibody (Cat#AGI1055). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Tax1 binding protein 1 antibody (Cat#AGI1055, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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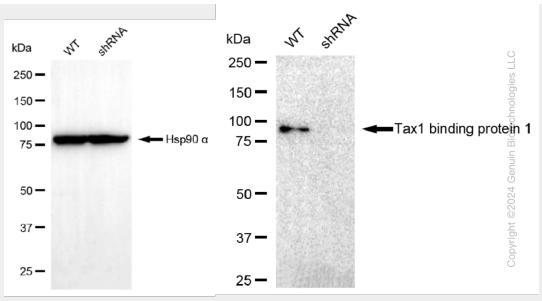
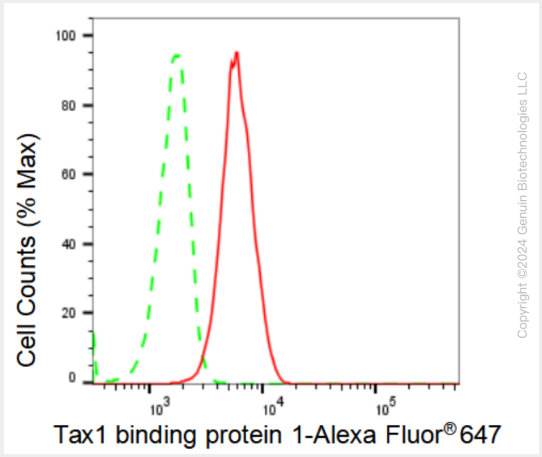
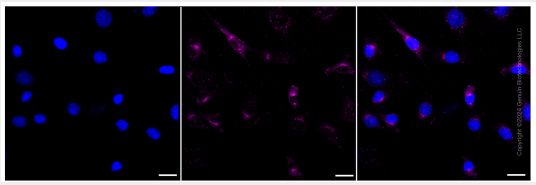


Western blotting analysis using anti-Tax1 binding protein 1 antibody (Cat#AGI1055). Tax1 binding protein 1 expression in wild type (WT) and tax1 binding protein 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Tax1 binding protein 1 antibody (Cat#AGI1055, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Tax1 binding protein 1 expression in C2C12 cells using Tax1 binding protein 1 antibody (Cat#AGI1055, 1:2,000). Green, isotype control; red, Tax1 binding protein 1.



Immunocytochemical staining of C2C12 cells with Tax1 binding protein 1 antibody (Cat#AGI1055, 1:1,000). Nuclei were stained blue with DAPI; Tax1 binding protein 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.