10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TRIM5 / RNF88 (alpha isoform) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF2491a

Specification

TRIM5 / RNF88 (alpha isoform) Antibody (internal region) - Product Information

Application	**IHC**
Primary Accession	Q9C035
Other Accession	NP_149023.1, 85363
Predicted	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**56338**

TRIM5 / RNF88 (alpha isoform) Antibody (internal region) - Additional Information

Gene ID 85363

Other Names
Tripartite motif-containing protein 5, 6.3.2.-, RING finger protein 88, TRIM5, RNF88

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TRIM5 / RNF88 (alpha isoform) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

TRIM5 / RNF88 (alpha isoform) Antibody (internal region) - Protein Information

Name TRIM5

Synonyms RNF88

Function
Capsid-specific restriction factor that prevents infection from non-host-adapted retroviruses. Blocks viral replication early in the life cycle, after viral entry but before reverse transcription. In addition to acting as a capsid-specific restriction factor, also acts as a pattern recognition receptor that activates innate immune signaling in response to the retroviral capsid lattice. Binding to the viral capsid triggers its E3 ubiquitin ligase activity, and in concert with the heterodimeric ubiquitin conjugating enzyme complex UBE2V1- UBE2N (also known as UBC13-UEV1A complex) generates

'Lys-63'-linked polyubiquitin chains, which in turn are catalysts in the autophosphorylation of the MAP3K7/TAK1 complex (includes TAK1, TAB2, and TAB3). Activation of the MAP3K7/TAK1 complex by autophosphorylation results in the induction and expression of NF-kappa-B and MAPK-responsive inflammatory genes, thereby leading to an innate immune response in the infected cell. Restricts infection by N-tropic murine leukemia virus (N-MLV), equine infectious anemia virus (EIAV), simian immunodeficiency virus of macaques (SIVmac), feline immunodeficiency virus (FIV), and bovine immunodeficiency virus (BIV) (PubMed:17156811). Plays a role in regulating autophagy through activation of autophagy regulator BECN1 by causing its dissociation from its inhibitors BCL2 and TAB2 (PubMed:25127057). Also plays a role in autophagy by acting as a selective autophagy receptor which recognizes and targets HIV-1 capsid protein p24 for autophagic destruction (PubMed:25127057).

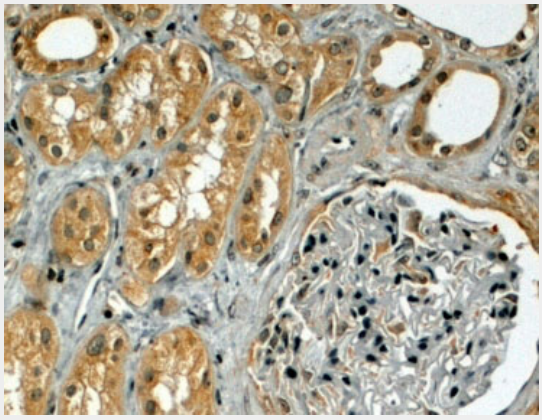
Cellular Location
Cytoplasm. Nucleus {ECO:0000250|UniProtKB:Q0PF16}. Note=Predominantly localizes in cytoplasmic bodies (PubMed:12878161, PubMed:20357094). Localization may be influenced by the coexpression of other TRIM proteins, hence partial nuclear localization is observed in the presence of TRIM22 or TRIM27 (By similarity). In cytoplasmic bodies, colocalizes with proteasomal subunits and SQSTM1 (By similarity). {ECO:0000250|UniProtKB:Q0PF16, ECO:0000269|PubMed:12878161, ECO:0000269|PubMed:20357094, ECO:0000269|PubMed:25127057}

TRIM5 / RNF88 (alpha isoform) Antibody (internal 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 Cytomety
- Cell Culture

TRIM5 / RNF88 (alpha isoform) Antibody (internal region) - Images



AF2491a (4 µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.

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TRIM5 / RNF88 (alpha isoform) Antibody (internal region) - Background

This antibody is expected to recognise isoform alpha (NP_149023.1) only.

TRIM5 / RNF88 (alpha isoform) Antibody (internal region) - References

Cyclophilin A is required for TRIM5{alpha}-mediated resistance to HIV-1 in Old World monkey cells. Berthoux L, Sebastian S, Sokolskaja E, Luban J. Proc Natl Acad Sci U S A. 2005 Oct 11;102(41):14849-53. Epub 2005 Oct 3. PMID: 16203999