

Rabbit TRIM3 Polyclonal Antibody | anti-TRIM3 antibody

TRIM3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321038	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TRIM3; Polyclonal Antibody; TRIM3 Antibody; BERP; Brain expressed ring finger; Brain-expressed RING finger protein; FLJ16135; HAC1; RING finger protein 22; RING finger protein 97; RNF22; RNF97; Trim3; TRIM3_HUMAN; Tripartite motif containing 3; Tripartite motif protein TRIM3; Tripartite motif-containing protein 3; anti-TRIM3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TRIM3 antibody detects endogenous levels of TRIM3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	744
Applicable Applications for anti-TRIM3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TRIM3
Subcellular Location	Cytoplasm. Early Endosome.
Tissue Specificity	Expressed in brain, heart, uterus and testis.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (92%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321038 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis on COLO205 cell lysate using TRIM3 Antibody, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA321038 at 1/100 staining human heart muscle tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-TRIM3 antibody

Description: The protein encoded by this gene is a member of the tripartite motif (TRIM) family, also called the 'RING-B-box-coiled-coil' (RBCC) subgroup of RING finger proteins. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This protein localizes to cytoplasmic filaments. It is similar to a rat protein which is a specific partner for the tail domain of myosin V, a class of myosins which are involved in the targeted transport of organelles. The rat protein can also interact with alpha-actinin-4. Thus it is suggested that this human protein may play a role in myosin V-mediated cargo transport. Alternatively spliced transcript variants encoding the same isoform have been identified.

Function: Probably involved in vesicular trafficking via its association with the CART complex (PubMed:15772161). The CART complex is necessary for efficient transferrin receptor recycling but not for EGFR degradation (PubMed:15772161). Positively regulates motility of microtubule-dependent motor protein KIF21B (By similarity). Subunit Structure: Associates with myosin-Vb (MYO5B) and alpha-actinin-4 (ACTN4) (By similarity). Component of the CART complex, at least composed of ACTN4, HGS/HRS, MYO5B and TRIM3 (PubMed:15772161). Interacts with ZFYVE28/LST2 (PubMed:19460345). Interacts with KIF21B (By similarity).

Similarity: The interaction with MYO5B is dependent upon its NHL repeats, which form a beta-propeller (NHL) domain containing six blades. Belongs to the TRIM/RBCC family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	351721563
NCBI GeneID	10612
NCBI Accession #	NP_001234935.1
NCBI GenBank Nucleotide #	NM_001248006.1
UniProt Accession #	O75382; Q4V9L4; Q9C038; Q9C039; B7Z5E6; F5H2Q8
Molecular Weight	Observed: 81 kDa Predicted: 81 kDa
NCBI Official Full Name	tripartite motif-containing protein 3 isoform 1
NCBI Official Synonym Full Names	tripartite motif containing 3
NCBI Official Symbol	TRIM3
NCBI Official Synonym Symbols	BERP; HAC1; RNF22; RNF97
NCBI Protein Information	tripartite motif-containing protein 3

UniProt Protein Name	Tripartite motif-containing protein 3
UniProt Gene Name	TRIM3
UniProt Synonym Gene Names	BERP; RNF22; RNF97

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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