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Datasheet for 600-401-FP6

TRIM5 alpha Antibody

Overview

Description:	Anti-TRIM5 alpha (RABBIT) Antibody - 600-401-FP6
Item No.:	600-401-FP6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	TRIM5 is a member of a broad family of otherwise unrelated proteins defined by the presence of a tripartite motif containing a RING domain, a B-box type 1, and a B-box type 2, followed by a coiled-coil region. TRIM5 has six alternately spliced isoforms, the longest of which is the alpha variant which also contains a carboxy-terminal B30.2 (SPRY) domain. Expression of TRIM5a variants from humans, rhesus monkeys, and African green monkeys enabled resistance to infection by various retroviruses including HIV-1, albeit at differing efficiencies. All TRIM5a variants could inhibit at least two different retroviruses, but not from those viruses isolated from the same species, suggesting that TRIM5a acts as a natural barrier to cross-species retrovirus transmission.
Synonyms:	TRIM5 alpha Antibody, RNF88, TRIM5alpha, RNF88, Tripartite motif-containing protein 5, RING finger protein 88
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TRIM5
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-TRIM5 alpha antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the near the internal region of human TRIM5 alpha.
Purity/Specificity:	Anti-TRIM5 alpha Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with TRIM5 alpha from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9C035 • GeneID - 85363 • NCBI - NP_149023.2

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TRIM5 alpha Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 56 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000
IF:	10 µg/mL
IHC:	2 µg/mL
WB:	2 µg/mL

Formulation

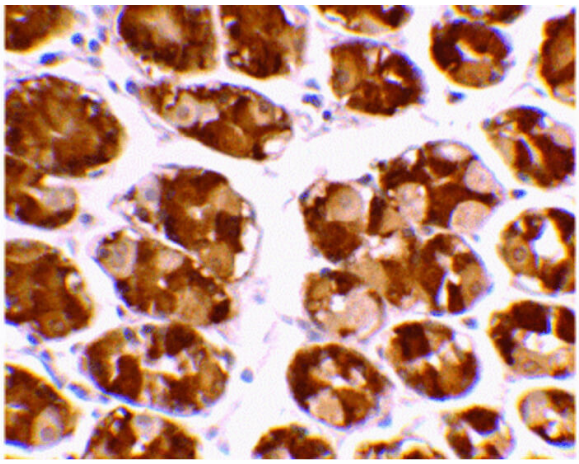
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

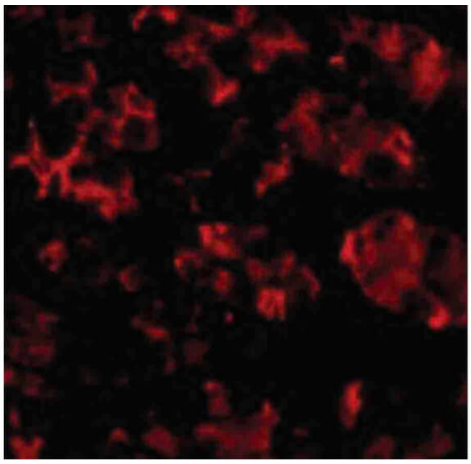
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

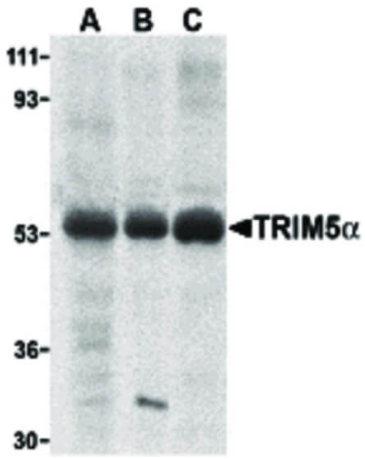
Images



Immunohistochemistry
Immunohistochemistry of TRIM5 alpha antibody. Tissue: human stomach tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TRIM5 alpha antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TRIM5 alpha cytoplasmic. Staining: TRIM5 alpha is stained with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of TRIM5 alpha antibody. Cell Type: human stomach cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: TRIM5 alpha antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TRIM5 alpha is cytoplasmic. Staining: TRIM5 alpha as red fluorescent signal.



Western Blot

Western Blot of TRIM5 alpha antibody. Lane A: human stomach cell lysate. Lane B: human thymus cell lysate. Lane C: human uterus cell lysate. Load: 35 µg per lane. Primary antibody: TRIM5 alpha antibody at 2 µg /ml for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 71 kDa, 54 kDa for TRIM5 alpha. Other band(s): TRIM5 alpha splice variants and isoforms.

Disclaimer

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