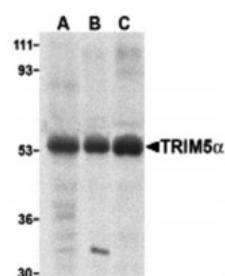
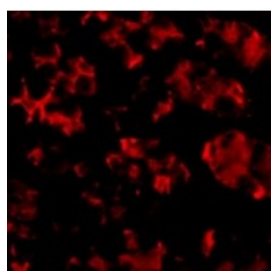


## TRIM5 alpha Antibody

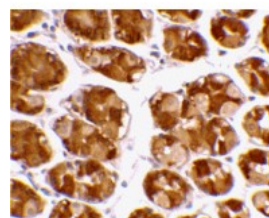
CATALOG NUMBER: 3247



Western blot analysis of TRIM5 alpha expression in human stomach (A), thymus (B), and uterus (C) cell lysate with TRIM5 alpha antibody at 2 ug/ml.



Immunofluorescence of TRIM5 alpha in Human Stomach cells with TRIM5 alpha antibody at 10 ug/mL.



Immunohistochemical staining of human stomach using TRIM5 alpha antibody at 2 ug/mL.

### Specifications

<b>SPECIES REACTIVITY:</b>	Human
<b>TESTED APPLICATIONS:</b>	ELISA, IF, IHC-P, WB
<b>APPLICATIONS:</b>	TRIM5 alpha antibody can be used for detection of TRIM5 alpha by Western blot at 2 ug/mL. A band at approximately 55 kDa can be detected. Antibody can also be used for immunohistochemistry starting at 2 ug/mL. For immunofluorescence start at 10 ug/mL.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>POSITIVE CONTROL:</b>	1) Cat. No. 1319 - Human Stomach Tissue Lysate 2) Cat. No. 1317 - Human Uterus Tissue Lysate 3) Cat. No. 1314 - Human Thymus Tissue Lysate
<b>IMMUNOGEN:</b>	TRIM5 alpha antibody was raised against a synthetic peptide corresponding to amino acids near the mid-region of human TRIM5 alpha.  The immunogen is located within amino acids 370 - 420 of TRIM5 alpha.
<b>HOST SPECIES:</b>	Rabbit

### Properties

<b>PURIFICATION:</b>	TRIM5 alpha Antibody is affinity chromatography purified via peptide column.
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	TRIM5 alpha Antibody is supplied in PBS containing 0.02% sodium azide.
<b>CONCENTRATION:</b>	1 mg/mL
<b>STORAGE CONDITIONS:</b>	TRIM5 alpha antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>CLONALITY:</b>	Polyclonal
<b>ISOTYPE:</b>	IgG
<b>CONJUGATE:</b>	Unconjugated

#### Additional Info

ALTERNATE NAMES:	TRIM5 alpha Antibody: RNF88, TRIM5alpha, RNF88, Tripartite motif-containing protein 5, RING finger protein 88
ACCESSION NO.:	NP_149023
PROTEIN GI NO.:	14719418
OFFICIAL SYMBOL:	TRIM5
GENE ID:	85363

#### Background

**BACKGROUND:** TRIM5 alpha Antibody: 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 TRIM5 $\alpha$  variants from humans, rhesus monkeys, and African green monkeys enabled resistance to infection by various retroviruses including HIV-1, albeit at differing efficiencies. All TRIM5 $\alpha$  variants could inhibit at least two different retroviruses, but not from those viruses isolated from the same species, suggesting that TRIM5 $\alpha$  acts as a natural barrier to cross-species retrovirus transmission.

**REFERENCES:**

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- 2) Stremlau M, Owens CM, Perron MJ, et al. The cytoplasmic body component TRIM5 $\alpha$  restricts HIV-1 infection in Old World monkeys. Nature 2004; 427:848-53.
- 3) Hatzioannou T, Perez-Caballero D, Yang A, et al. Retrovirus resistance factors REF1 and Lv1 are species-specific variants of TRIM5 $\alpha$ . Proc. Nat'l. Acad. Sci. USA 2004; 101:10774-9

FOR RESEARCH USE ONLY

December 12, 2016