



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent:	Anti-Rhesus TRIM5 α Polyclonal (CT)
Catalog Number:	11305
Lot Number:	3249-1003
Provided:	100 μ g/vial.
Description:	<p>This rabbit polyclonal antibody was raised against a synthetic peptide corresponding to near the C terminus of rhesus TRIM5α (Genbank #NP_001028082). The antibody reacts with human TRIM5α.</p> <p>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 (1). TRIM5 has six alternately spliced isoforms, the longest of which is the α variant which also contains a carboxy-terminal B30.2 (SPRY) domain (1). Expression of TRIM5α variants from humans, rhesus monkeys, and African green monkeys enabled resistance to infection by various retroviruses including HIV-1 (2,3), albeit at differing efficiencies. All TRIM5α variants could inhibit at least two different retroviruses, but not from those viruses isolated from the same species, suggesting that TRIM5α acts as a natural barrier to cross-species retrovirus transmission (3).</p>
Special Characteristics:	<p>Source: Rabbit polyclonal TRIM5α antibody was raised against a synthetic peptide corresponding to amino acids near the C-terminus of rhesus monkey TRIM5α (Genbank accession No. AAS48505).</p> <p>Application: TRIM5α antibody can be used for detection of TRIM5α by Western blot at 1 to 2 μg/ml. (Optimal dilution should be determined by user.) Human uterus cell lysate can be used as a positive control and a band at approximately 55 kDa can be detected. TRIM5α?antibody is human reactive but should presumably also react with rhesus protein. For research use only.</p>
Recommended Storage:	Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.
Contributor:	ProSci, Incorporated

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

References:

1. Reymond A, Meroni G, Fantozzi A, et al. The tripartite motif family identifies cell compartments. *EMBO J.* 2001; **20**:2140-51.
2. Stremlau M, Owens CM, Perron MJ, et al. The cytoplasmic body component TRIM5 α 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 α . *Proc. Nat'l. Acad. Sci. USA* 2004; **101**:10774-9

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIH: Anti-Rhesus TRIM5 α Polyclonal (CT) from ProSci Incorporated." Also include the references cited above in any publications.

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