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DATA SHEET

Reagent:	Anti-Rhesus TRIM5α Polyclonal (CT)
Catalog Number:	11305
Lot Number:	3249-0502
Provided:	100 µg/vial.
Description:	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).
Special Characteristics:	**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). **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.
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
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 TRIM5α restricts HIV-1 infection in Old World monkeys. *Nature* 2004; **427**:848-53.

3. Hatziioannou T, Perez-Caballero D, Yang A, et al. Retrovirus resistance factors Ref1 and Lv1 are species-specific variants of TRIM5α. *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 TRIM5α Polyclonal (CT) from ProSci Incorporated." Also include the references cited above in any publications.