



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	Anti-Rhesus TRIM5 α Polyclonal (IN2)
Catalog Number:	11241
Lot Number:	3 3251-0602
Provided:	100 μ g per vial of purified IgG in PBS containing 0.02% sodium azide.
Description:	<p>This rabbit polyclonal antibody was raised against a synthetic peptide corresponding to near the mid-region of rhesus TRIM5α (Genbank #AAS48505). 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 a 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:	Western blot at about 1-2 μ g/ml
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:	<ol style="list-style-type: none">1. Reymond A, Meroni G, Fantozzi A, et al. The tripartite motif family identifies cell compartments. <i>EMBO J.</i> 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. <i>Nature</i> 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 TRIM5α. <i>Proc. Nat'l. Acad. Sci. USA</i> 2004; 101:10774-9.

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.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS from ProSci Inc.: Anti-Rhesus TRIM5a Polyclonal (IN2)." Also include the references cited above in any publications.

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