



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	Anti-Rhesus TRIM5 $\alpha$ Polyclonal (IN2)
<b>Catalog Number:</b>	11241
<b>Lot Number:</b>	060785
<b>Provided:</b>	100 $\mu$ g per vial.
<b>Description:</b>	<p>This rabbit polyclonal antibody was raised against a synthetic peptide corresponding to near the mid-region of rhesus TRIM5<math>\alpha</math> (Genbank #NP_001028082). The antibody reacts with human TRIM5<math>\alpha</math>.</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 TRIM5<math>\alpha</math> 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 TRIM5<math>\alpha</math> variants could inhibit at least two different retroviruses, but not from those viruses isolated from the same species, suggesting that TRIM5<math>\alpha</math> acts as a natural barrier to cross-species retrovirus transmission (3).</p>
<b>Special Characteristics:</b>	Western blot at about 1-2 $\mu$ g/ml
<b>Recommended Storage:</b>	Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.
<b>Contributor:</b>	ProSci, Incorporated
<b>References:</b>	<ol style="list-style-type: none"><li>1. Reymond A, Meroni G, Fantozzi A, et al. The tripartite motif family identifies cell compartments. <i>EMBO J.</i> 2001; <b>20</b>:2140-51.</li><li>2. Stremlau M, Owens CM, Perron MJ, et al. The cytoplasmic body component TRIM5<math>\alpha</math> restricts HIV-1 infection in Old World monkeys. <i>Nature</i> 2004; <b>427</b>:848-53.</li><li>3. Hatzioannou T, Perez-Caballero D, Yang A, et al. Retrovirus resistance factors REF1 and Lv1 are species-specific variants of TRIM5<math>\alpha</math>. <i>Proc. Nat'l. Acad. Sci. USA</i> 2004; <b>101</b>:10774-9.</li></ol>

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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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