

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat PRAT4B in Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human PRAT4B and recombinant mouse PRAT4A is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derive recombinant mouse PRAT4B Thr30-Leu245 Accession # Q8BQ47
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Western Blot

Detection of Mouse and Rat PRAT4B by Western Blot.
Western blot shows lysates of rat lung tissue and mouse spleen tissue. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Mouse/Rat PRAT4B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5015) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for PRAT4B at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry

Detection of PRAT4B in RAW264.7 Mouse Cell Line by Flow Cytometry
RAW 264.7 mouse monocyte/macrophage cell line was stained with Goat Anti-Mouse/Rat PRAT4B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5015, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PRAT4B (protein associated with TLR4-B; also Cnpy4, protein canopy homolog 4) is a member of the canopy family of proteins. It is expressed by diverse cell types, including macrophages, fibroblasts and B cells. PRAT4B appears to be both secreted, and retained internally, where it may stabilize immature TLR protein expression in the ER, and impact its appearance on the cell surface. Mouse PRAT4B is 245 amino acids (aa) in length. It contains a 27 aa signal sequence plus one coiled-coil region (aa 209 - 237). There is one potential splice variant that shows a 13 aa substitution for the C-terminal nine amino acids. Over aa 30 - 245, mouse PRAT4B is 95% and 87% aa identical to rat and human PRAT4B, respectively.