

# **Human/Mouse GRAP2 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4640

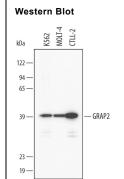
DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects endogenous human and mouse GRAP2 in Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human GRAP2 Met1-Arg330 Accession # O75791		
Formulation	Lyophilized from 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

### DATA



# Detection of Human/Mouse GRAP2 by Western Blot.

Western blot shows lysates of K562 human chronic myelogenous leukemia cell line, MOLT-4 human acute lymphoblastic leukemia cell line, and CTLL-2 mouse cytotoxic T cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse GRAP2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4640) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for GRAP2 at approximately 39 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

# 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.

- 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

GRAP2 (GRB2 related adaptor protein 2), a divergent member of the GRB2/Sem5/Drk family, is an adaptor protein involved in leukocyte-specific protein-tyrosine kinase signaling. GRAP2 shares similar structural organization as GRB2 and GRAP with a central SH2 domain flanked by 2 SH3 domains. However, unlike GRB2 and GRAP, the SH2 domain and the C-terminal SH3 domain of GRAP2 contains a unique 120 amino acid glutamine/proline rich sequence. In T lymphocytes, GRAP2 interacts with LAT and SLP-76 to regulate NF-AT (nuclear factor of activated T cells) and form a signaling complex with HPK1 to mediate the JNK signaling pathway. GRAP2 also interacts with M-CSFR and the activated T cell co-stimulatory receptor CD28.

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