

## **Human/Mouse/Rat Rheb Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 344912 Catalog Number: MAB3426

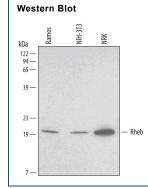
DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Rheb.
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 344912
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human Rheb Met1-Met184 Accession # AAH66307
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**

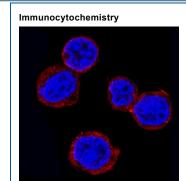
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunocytochemistry	3-25 μg/mL	See Below

## DATA



Detection of Human/Mouse/Rat Rheb by Western Blot. Western blot shows lysates of NRK rat normal kidney cell line, Ramos human Burkitt's lymphoma cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse/Rat Rheb Monoclonal Antibody (Catalog # MAB3426) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Rheb at approximately 20 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Rheb in Ramos Human Cell Line. Rheb was detected in immersion fixed Ramos human Burkitt's lymphoma cell line using Mouse Anti-Human/Mouse/Rat Rheb Monoclonal Antibody (Catalog # MAB3426) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights ™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C  Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Stability & Storage	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.

## BACKGROUNE

Ras homolog enriched in brain (Rheb) is a novel member of the Ras superfamily of GTP-binding proteins involved in cell growth and cell cycle progression. Expressed in a wide range of tissues, Rheb was initially identified from its induction in rat hippocampal granule cells by seizures and NMDA-dependent synaptic activity. A complex containing the tuberous sclerosis gene products TSC1 and TSC2 functions as a GTPase-activating protein (GAP) for Rheb.

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