

## **Human Rap2B Antibody**

Monoclonal Mouse IgG<sub>2A</sub> Clone # 455517 Catalog Number: MAB5710

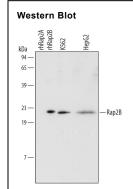
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Rap2B in Western blots. No cross-reactivity with recombinant human Rap2A is observed.
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 455517
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human Rap2B Met1-Leu183 Accession # P61225
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	2 μg/mL	See Below

## DATA



Detection of Human Rap2B by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 2 µg/mL Mouse Anti-Human Rap2B Monoclonal Antibody (Catalog # MAB5710) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human Rap2A and Rap2B (5 ng/lane) were included. A specific band for Rap2B was detected at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

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 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.

\*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**

Rap2B is a member of the small GTPase superfamily and ras family of proteins. Unlike normal ras proteins that have a nontransforming glutamine residue at aa 61, Rap2B has a threonine residue in that position. This change makes the intrinsic GTPase activity for Rap2B lower, thereby allowing it to exist in the activated state for a longer period of time than normal ras proteins. Aggregation of platelets by thrombin results in the activation of Rap2B in a Ca<sup>2+</sup> and Pl3 kinase-dependent manner.

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