

Human/Mouse/Rat Rap2A/B Antibody

Monoclonal Mouse IgG_{2B} Clone # 455410 Catalog Number: MAB4698

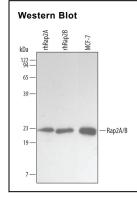
DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human, mouse, and rat Rap2A/B in Western blots.		
Source	Monoclonal Mouse IgG _{2B} Clone # 455410		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human Rap2A/B Met1-Gln183 Accession # P10114		
Formulation	ion 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, and Rat Rap2A/B by Western Blot.

Western blot shows lysates of MCF-7 human breast cancer cell line. PVDF membrane was probed with µg/mL Mouse Anti-Human/Mouse/Rat Rap2A/B Monoclonal Antibody (Catalog # MAB4698) 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 Rap2A/B was detected at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

ShippingThe 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

- 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

Rap2A and Rap2B are members of the small GTPase superfamily and ras family of proteins. Both proteins are 183 amino acids (aa) in length (SwissProt P10114 and P61225), and they are 90% identical at the amino acid level, with the most variability at the carboxyl terminus of the protein. Unlike normal Ras proteins that have a nontransforming glutamine at aa 61, these two oncogenic proteins have a threonine in that position. This change makes the intrinsic GTPase activity for these proteins lower, thereby allowing them to exist in the activated state for a longer period of time than normal Ras proteins.

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