

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	<i>E. coli</i> -derived recombinant human Rap2A/B Met1-Gln183 Accession # P10114
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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