

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat GRB2 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 481021
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human GRB2 Met1-Val217 Accession # P62993
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

GRB2 (growth factor receptor-bound protein 2), an adaptor protein involved in signal transduction, contains a central SH2 domain flanked by two SH3 domains. The SH2 domain binds to phosphotyrosine residues in RTKs such as PDGF and EGF, non-RTKs such as Bcr/Abl and FAK, and docking proteins such as FRS-2 and Gab1. The SH3 domains associate with proline rich motifs on the guanine nucleotide releasing factor, Sos, stimulating GTP binding to Ras, which in turn activates MAPK and other signaling pathways. GRB2 also participates in the endocytosis of EGFR through its recruitment of Cbl. Tyrosine phosphorylation of GRB2 SH3 domains reduces binding to Sos and negatively regulates downstream signaling pathways including Ras, JNK and MAPK.

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