

DESCRIPTION

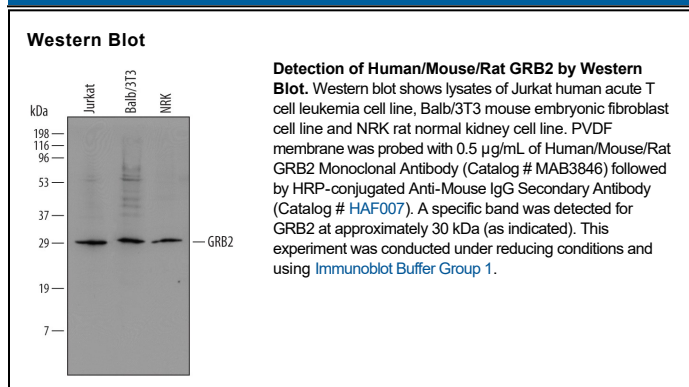
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat GRB2 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 481021
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human GRB2 Met1-Val217 Accession # P62993
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	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

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. <ul style="list-style-type: none"> • 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

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.