Human GRB2 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 669604

Catalog Number: FAB38461R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GRB2 (SH2 Domain) in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) GRAP2 (SH2 domain; aa 58-149), rhGRB7 (aa 130-274), or rhGRB14 (SH2 domain; aa 439-535) is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 669604
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human GRB2 (SH2 Domain) Trp60-Glu152 Accession # P62993
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunohistochemistry	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 2; also Ash) is a ubiquitously-expressed, 27 kDa member of the GRB2/sem-5 family of adaptor molecules. It serves as a linker for many intracellular proteins. Upon BCR ligation, LAB is phosphorylated, binds to GRB2, which subsequently recruits signaling factors. Upon InsR ligation, GRB2 binds to phosphorylated IRS-1, and serves as a linker to ras-activation. Human GRB2 is 217 amino acids (aa) in length. It contains one N-terminal SH3 domain (aa 3-54), a central SH2 domain (aa 60-152), and a C-terminal SH3 domain (aa 160-212). SH2 domains bind phosphotyrosine motifs; SH3 domains bind proline-rich regions. There is one splice form that shows a deletion of aa 60-100. This removes the SH2 domain and initiates apoptosis. Human GRB2 is over 99% aa identical to mouse and dog GRB2.

PRODUCT SPECIFIC NOTICES

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