Mouse IGFBP-L1 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4130G
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IGFBP-L1 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human IGFBP-L1 is observed and less than 1% cross-reactivity with recombinant mouse IGFBP-7 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IGFBP-L1 Leu18-Leu270 Accession # Q80W15
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

Insulin-like Growth Factor Binding Protein-Like 1 (IGFBP-L1), also known as IGFBP-rP4, is a 38 kDa secreted member of the IGFBP superfamily of proteins. IGFBP superfamily members are cysteine-rich proteins with conserved cysteine residues, which are clustered in the amino- and carboxy-terminal thirds of the molecule. IGFBPs modulate the biological activities of IGF proteins (1). IGFBP-L1 contains an N-terminal IGFBP motif, a Kazal-type serine protease inhibitor region, and a C-terminal Ig-like domain (2, 3). Mature mouse IGFBP-L1 shares 76% and 96% amino acid (aa) sequence identity with human and rat IGFBP-L1, respectively. It shares 38%-41% aa sequence identity with mouse IGFBP-7 and IGFBP-rp10 and 20%-24% aa sequence identity with mouse IGFBP-1, -2, -3, -4, -5, and -6. IGFBP-L1 is most highly expressed in testis and brain, while lower levels are more broadly expressed (3). IGFBP-L1 is expressed in regionally and temporally distinct patterns during forebrain development (4). IGFBP-L1 inhibits cell proliferation in vitro and is downregulated in many colon and lung tumors (3). Transcriptional downregulation by promoter methylation is predictive of breast cancer aggressiveness (5).

PRODUCT SPECIFIC NOTICES

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