



Biotinylated Anti-mouse IGFBP-L1 Antibody

ORDERING INFORMATION

Catalog Number: BAF4130

Lot Number: ZLU01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: mouse IGFBP-L1

Immunogen: NS0-derived rmlIGFBP-L1

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry

Background

Insulin-like Growth Factor Binding Protein-Like 1 (also IGFBP-rP4) is a secreted member of the IGFBP family of proteins. Based on human, mature mouse IGFBP-L1 is a 251 amino acid (aa), 38 kDa glycoprotein. It contains an N-terminal IGFBP motif (aa 53 - 68), a kazal-type serine protease inhibitor region (aa 83 - 143) and a C-terminal Ig-like domain (aa 161 - 237). IGFBP-L1 is expressed in brain and testis and may be a tumor suppressor, possibly through the induction of apoptosis. Over aa 18 - 270, mouse IGFBP-L1 shares 96% and 79% sequence identity with rat and human IGFBP-L1, respectively.

Preparation

Produced in a goat immunized with purified, NS0-derived, recombinant mouse Insulin-like Growth Factor Binding Protein-Like1 (rmlIGFBP-L1; aa 18 - 270; Accession # NP_061211). Mouse IGFBP-L1 specific IgG was purified by mouse IGFBP-L1 affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use in Western blots and immunohistochemistry.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse IGFBP-L1. The detection limit for rmlIGFBP-L1 is approximately 2 ng/lane and 5 ng/lane under non-reducing and reducing conditions, respectively. In this format, this antibody shows approximately 15% cross-reactivity with rhIGFBP-L1 and less than 1% cross-reactivity with rmlIGFBP-7.

Immunohistochemistry - This antibody has been used at a concentration of 10 µg/mL to detect IGFBP-L1 in cryosections of E13.5 mouse brain. Tissue was fixed overnight in 4%PFA+14%picric acid in PBS at 4° C. Sections were blocked with 10% donkey serum and 0.1% Triton® in 1% BSA in PBS for 45 minutes at room temperature. After blocking, sections were incubated with diluted primary antibody for 3 hours at room temperature followed by R&D Systems Northern Lights 557-conjugated streptavidin (Catalog # NL999) at room temperature for 1 hour. Between each step, cells were washed with PBS containing 0.1% BSA.

Optimal dilutions should be determined by each laboratory for each application.

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