

Goat Anti-IGFBP3 Antibody

Peptide-affinity purified goat antibody Catalog # AF1557a

Specification

Goat Anti-IGFBP3 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW WB, E <u>P17936</u> <u>NP_000589, 3486, 16009 (mouse), 24484 (rat)</u> Human Mouse, Rat, Dog Goat Polyclonal 100ug/200ul IgG 31674

Goat Anti-IGFBP3 Antibody - Additional Information

Gene ID 3486

Other Names Insulin-like growth factor-binding protein 3, IBP-3, IGF-binding protein 3, IGFBP-3, IGFBP3, IBP3

Dilution WB~~1:1000 E~~N/A

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-IGFBP3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-IGFBP3 Antibody - Protein Information

Name IGFBP3

Synonyms IBP3

Function



Multifunctional protein that plays a critical role in regulating the availability of IGFs such as IGF1 and IGF2 to their receptors and thereby regulates IGF-mediated cellular processes including proliferation, differentiation, and apoptosis in a cell-type specific manner (PubMed:10874028, PubMed:19556345). Also exhibits IGF- independent antiproliferative and apoptotic effects mediated by its receptor TMEM219/IGFBP-3R (PubMed:20353938). Inhibits the positive effect of humanin on insulin sensitivity (PubMed:19623253). Promotes testicular germ cell apoptosis (PubMed: 19952275). Acts via LRP-1/alpha2M receptor, also known as TGF-beta type V receptor, to mediate cell growth inhibition independent of IGF1 (PubMed: 9252371). Mechanistically, induces serine-specific dephosphorylation of IRS1 or IRS2 upon ligation to its receptor, leading to the inhibitory cascade (PubMed:15371331). In the nucleus, interacts with transcription factors such as retinoid X receptor-alpha/RXRA to regulate transcriptional signaling and apoptosis (PubMed:10874028).

Cellular Location Secreted. Nucleus

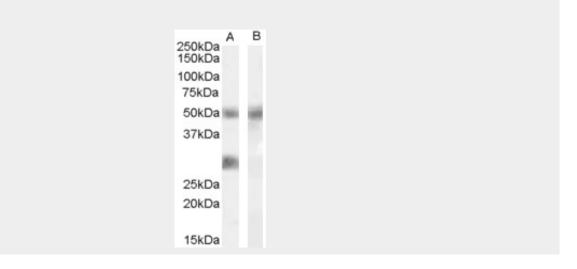
Tissue Location Expressed by most tissues. Present in plasma.

Goat Anti-IGFBP3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Goat Anti-IGFBP3 Antibody - Images





AF1557a (0.02 μ g/ml) staining of Human Breast cancer lysate (35 μ g protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.