

### **Goat Anti-IGFBP3 Antibody**

Peptide-affinity purified goat antibody Catalog # AF1557a

### **Specification**

### **Goat Anti-IGFBP3 Antibody - Product Information**

Application WB, E
Primary Accession P17936

Other Accession NP 000589, 3486, 16009 (mouse), 24484 (rat)

Reactivity Human

Predicted Mouse, Rat, Dog

Host Goat
Clonality Polyclonal
Concentration 100ug/200ul

Isotype IgG
Calculated MW 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:<a href="http://www.uniprot.org/citations/10874028" target="\_blank">10874028</a>, PubMed:<a href="http://www.uniprot.org/citations/19556345" target="\_blank">19556345</a>). Also exhibits IGF- independent antiproliferative and apoptotic effects mediated by its receptor TMEM219/IGFBP-3R (PubMed:<a href="http://www.uniprot.org/citations/20353938" target="\_blank">20353938" target="\_blank">20353938</a>). Inhibits the positive effect of humanin on insulin sensitivity (PubMed:<a href="http://www.uniprot.org/citations/19623253" target="\_blank">19623253</a>). Promotes testicular germ cell apoptosis (PubMed:<a

href="http://www.uniprot.org/citations/19952275" target="\_blank">19952275</a>). Acts via LRP-1/alpha2M receptor, also known as TGF-beta type V receptor, to mediate cell growth inhibition independent of IGF1 (PubMed:<a href="http://www.uniprot.org/citations/9252371" target="\_blank">9252371</a>). Mechanistically, induces serine-specific dephosphorylation of IRS1 or IRS2 upon ligation to its receptor, leading to the inhibitory cascade (PubMed:<a href="http://www.uniprot.org/citations/15371331" target="\_blank">15371331</a>). In the nucleus, interacts with transcription factors such as retinoid X receptor-alpha/RXRA to regulate transcriptional signaling and apoptosis (PubMed:<a

href="http://www.uniprot.org/citations/10874028" target=" blank">10874028</a>).

**Cellular Location** Secreted, Nucleus

### **Tissue Location**

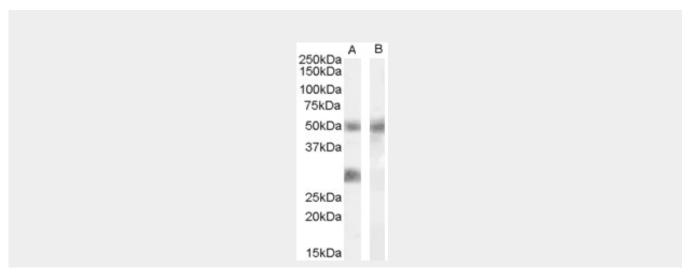
Expressed by most tissues. Present in plasma.

#### **Goat Anti-IGFBP3 Antibody - Protocols**

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

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

# Goat Anti-IGFBP3 Antibody - Images







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