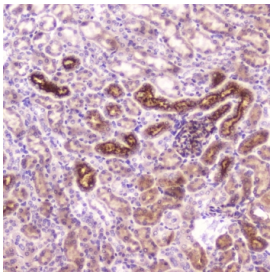
IGFBP2 Antibody / IGF Binding Protein 2 Antibody (RQ4455)

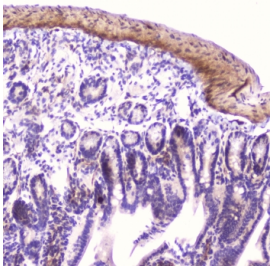
Catalog No.	Formulation	Size
RQ4455	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

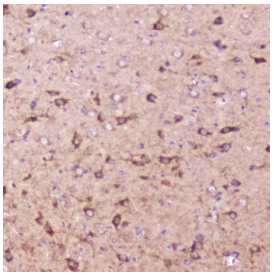
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P12843
Localization	Secreted
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml (recombinant rat protein)
Limitations	This IGFBP2 Antibody / IGF Binding Protein 2 Antibody is available for research use only.



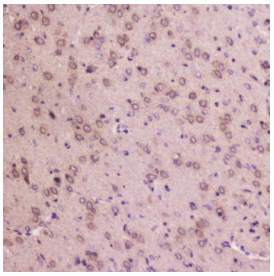
IGFBP2 Antibody Mouse Kidney IHC. IHC staining of FFPE mouse kidney tissue was performed with IGFBP2 Antibody at 2 ug/ml. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 6.0, 10 mM citrate buffer for 10-20 minutes, followed by cooling at room temperature for 20 minutes. Positive IGFBP2 staining is observed predominantly in renal tubular structures. This IGFBP2 Antibody demonstrates localization of insulin-like growth factor binding protein 2 in mouse kidney tissue.



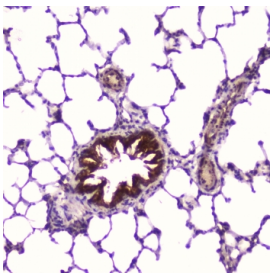
IGFBP2 Antibody Mouse Small Intestine IHC. IHC staining of FFPE mouse small intestine tissue was performed with IGFBP2 Antibody at 2 ug/ml. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 6.0, 10 mM citrate buffer for 10-20 minutes, followed by cooling at room temperature for 20 minutes. Positive IGFBP2 staining is observed in the intestinal epithelium, including prominent staining along the luminal surface. This IGFBP2 Antibody demonstrates localization of insulin-like growth factor binding protein 2 in mouse intestinal tissue.



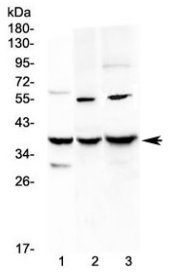
IGFBP2 Antibody Mouse Brain IHC. IHC staining of FFPE mouse brain tissue was performed with IGFBP2 Antibody at 2 ug/ml. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 6.0, 10 mM citrate buffer for 10-20 minutes, followed by cooling at room temperature for 20 minutes. Positive IGFBP2 staining is observed in neuronal cells and surrounding brain tissue. This IGFBP2 Antibody demonstrates localization of insulin-like growth factor binding protein 2 in mouse brain tissue.



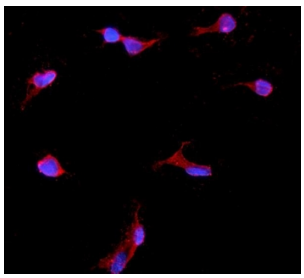
IGFBP2 Antibody Rat Brain IHC. IHC staining of FFPE rat brain tissue was performed with IGFBP2 Antibody at 2 ug/ml. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 6.0, 10 mM citrate buffer for 10-20 minutes, followed by cooling at room temperature for 20 minutes. Positive IGFBP2 staining is observed in neuronal cells throughout the brain tissue. This IGFBP2 Antibody demonstrates localization of insulin-like growth factor binding protein 2 in rat brain tissue.



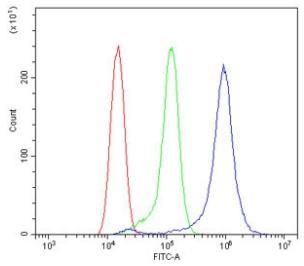
IGFBP2 Antibody Rat Lung IHC. IHC staining of FFPE rat lung tissue was performed with IGFBP2 Antibody at 2 ug/ml. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 6.0, 10 mM citrate buffer for 10-20 minutes, followed by cooling at room temperature for 20 minutes. Positive IGFBP2 staining is observed prominently in the bronchial epithelium. This IGFBP2 Antibody demonstrates localization of insulin-like growth factor binding protein 2 in rat lung tissue.



IGFBP2 Antibody Mouse and Rat WB. Western blot testing was performed using IGFBP2 Antibody on rat liver (lane 1), mouse Neuro-2a (lane 2) and mouse HEPA1-6 (lane 3) lysates. The antibody was used at 0.5 ug/ml. A prominent band is detected at approximately 40 kDa, slightly above the predicted molecular weight of approximately 35 kDa for IGFBP2. This IGFBP2 Antibody demonstrates detection of insulin-like growth factor binding protein 2 in mouse and rat tissue and cell lysates.



IGFBP2 Antibody Rat Kidney Cell IF. Immunofluorescent staining of fixed rat NRK cells was performed with IGFBP2 Antibody (red) and DAPI nuclear stain (blue). Heat-induced epitope retrieval was performed by steaming in pH 6.0 citrate buffer for 20 minutes. IGFBP2 staining is observed predominantly in the cytoplasmic and perinuclear regions of the cells. This IGFBP2 Antibody demonstrates detection and localization of insulin-like growth factor binding protein 2 in rat kidney-derived cells.



IGFBP2 Antibody Rat Liver Cell Flow Cytometry. Flow cytometry analysis of rat RH35 cells was performed with IGFBP2 Antibody at 1 ug/million cells following blocking with goat serum. The histogram shows cells alone (red), isotype control (green) and IGFBP2 Antibody staining (blue). A clear fluorescence shift is observed with the IGFBP2 Antibody compared with the isotype control. This IGFBP2 Antibody demonstrates detection of insulin-like growth factor binding protein 2 in rat liver-derived RH35 cells.

Description

IGFBP2 Antibody / IGF Binding Protein 2 Antibody detects insulin-like growth factor binding protein 2, a secreted protein encoded by the IGFBP2 gene. IGFBP2 is one of six major high-affinity insulin-like growth factor binding proteins and participates in the regulation of IGF-I and IGF-II availability and activity. Through these interactions, IGFBP2 can influence IGF receptor signaling and biological processes associated with cell growth, differentiation, survival and metabolism.

IGF binding protein 2 contains conserved regions involved in high-affinity interaction with insulin-like growth factors. Binding of IGFs by IGFBP2 can affect their stability, extracellular distribution and accessibility to cell-surface IGF receptors. In addition to these classical IGF-dependent functions, IGFBP2 has been associated with IGF-independent activities involving extracellular matrix components, cell-surface interactions and intracellular signaling mechanisms. These different modes of action contribute to the diverse biological effects associated with IGFBP2 expression.

IGFBP2 is expressed in a variety of tissues and has important roles during growth and development. Its expression can vary with tissue type, developmental stage and physiological state. IGFBP2 has also been investigated in metabolic biology, including studies of insulin sensitivity, glucose homeostasis and lipid metabolism. An IGFBP2 Antibody can be used to examine changes in protein expression and distribution in experimental models investigating these processes.

IGFBP2 is also extensively studied in cancer biology. Increased IGFBP2 expression has been reported in multiple malignancies, where it has been investigated in relation to tumor cell proliferation, migration, invasion and disease progression. Depending on the cellular context, these associations may involve modulation of IGF signaling as well as mechanisms that are partly or completely independent of IGF receptor activation. As a secreted protein, IGFBP2 has additionally attracted interest in biomarker research and studies examining circulating proteins associated with disease.

Research on IGFBP2 extends to neurological function, bone biology, aging and tissue remodeling. The involvement of IGFBP2 across these areas reflects the broad biological importance of the insulin-like growth factor system and the mechanisms that regulate growth factor availability. Studying IGFBP2 expression can therefore provide insight into both normal physiological regulation and signaling changes associated with disease.

NSJ Bioreagents offers IGFBP2 Antibody reagents for research into IGFBP2 expression and biology. An IGF Binding Protein 2 Antibody can support studies of IGF signaling, cellular growth, metabolism, development and cancer-associated processes.

For broader research into IGFBP2 expression and function, explore our IGFBP2 Antibody page for additional reagents targeting insulin-like growth factor binding protein 2.

Application Notes

Optimal dilution of the IGFBP2 Antibody / IGF Binding Protein 2 Antibody should be determined by the researcher.

Immunogen

Rat IGFBP2 recombinant protein (amino acids E35-Q304) was used as the immunogen for the IGFBP2 antibody.

Storage

After reconstitution, the IGFBP2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

IGFBP2 antibody, IGF Binding Protein 2 antibody, Insulin-Like Growth Factor Binding Protein 2 antibody, IGF-Binding Protein 2 antibody, IGFBP-2 antibody, IBP2 antibody

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