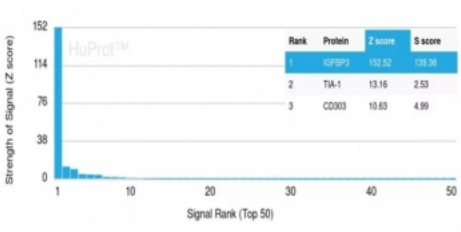
Insulin-Like Growth Factor Binding Protein 3 Antibody / IBP-3 Antibody [clone IGFBP3/3423] (V5370)

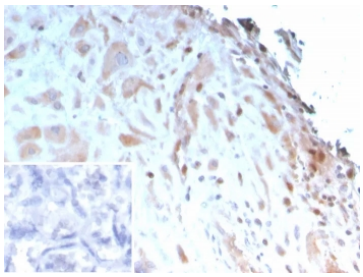
Catalog No.	Formulation	Size
V5370-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5370-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5370SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

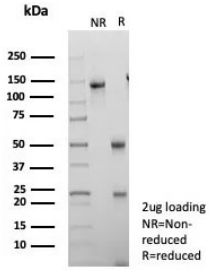
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	IGFBP3/3423
Purity	Protein A/G affinity
UniProt	P17936
Localization	Cytosol and nucleoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Insulin-Like Growth Factor Binding Protein 3 Antibody / IBP-3 Antibody is available for research use only.



Protein Microarray Validated Insulin-Like Growth Factor Binding Protein 3 Antibody Specificity. HuProt protein microarray analysis of Insulin-Like Growth Factor Binding Protein 3 Antibody clone IGFBP3/3423 against more than 19,000 full-length human proteins demonstrates preferential recognition of IGFBP3, which ranks first with clear separation from the next-ranked proteins. The Z-score represents signal strength in standard deviations above the mean signal across the array, while the S-score represents the difference between successive ranked Z-scores and reflects relative target specificity. This Protein Microarray Validated result supports selective recognition of IGFBP3 by clone IGFBP3/3423.



IBP-3 Antibody Staining in Human Placenta IHC. Immunohistochemistry of FFPE human placenta tissue using IBP-3 Antibody clone IGFBP3/3423 demonstrates brown staining within placental cells, with predominantly cytoplasmic reactivity and comparatively limited background staining. The inset shows the secondary-only negative control, prepared by substituting PBS for the primary antibody, and displays minimal signal.



Purified IGFBP3/3423 Monoclonal Antibody SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free Insulin-Like Growth Factor Binding Protein 3 Antibody clone IGFBP3/3423 under non-reducing (NR) and reducing (R) conditions. The non-reduced antibody migrates predominantly near 150 kDa, consistent with intact mouse IgG, while reduction produces bands near 50 kDa and 25 kDa corresponding to the immunoglobulin heavy and light chains, respectively. The profile supports the integrity of the purified monoclonal antibody preparation.

Description

Insulin-Like Growth Factor Binding Protein 3 Antibody recognizes IGFBP3, a secreted member of the insulin-like growth factor-binding protein family. IGFBP3, also known as IBP-3, binds insulin-like growth factors with high affinity and regulates their distribution, stability, and availability for receptor signaling. Through its interactions with IGF1 and IGF2, IGFBP3 can influence processes associated with cellular proliferation, differentiation, survival, and metabolism.

IGFBP3 is a major carrier of insulin-like growth factors in the circulation. Together with an IGF and the acid-labile subunit (ALS), it can form a ternary complex of approximately 140-150 kDa. Formation of this complex extends the circulating lifetime of IGFs and contributes to regulation of their availability to tissues. Proteolytic processing and interactions with other molecules can further influence the ability of IGFBP3 to bind and regulate insulin-like growth factors.

In addition to regulating IGF-dependent signaling, IGFBP3 has been investigated for biological activities that can occur independently of IGF sequestration. Protein interactions and intracellular localization may contribute to effects on proliferation, apoptosis, and transcriptional regulation. These functions have made IGFBP3 an extensively studied protein in research involving growth and development, metabolism, cellular stress responses, and cancer biology.

This mouse monoclonal antibody is derived from clone IGFBP3/3423 and has been characterized by protein microarray analysis. Protein Microarray Validated status provides additional characterization of antibody-target recognition across a large human protein panel. NSJ Bioreagents supplies this reagent for research investigating IGFBP3 expression and insulin-like growth factor regulation. An Insulin-Like Growth Factor Binding Protein 3 Antibody can support studies of IGFBP3 biology and mechanisms governing growth factor availability.

For a Protein Microarray Validated monoclonal targeting the same protein with a different clone, see our IGFBP3 Antibody IGFBP3/3424 / BP-53 Antibody page.

Application Notes

Optimal dilution of the Insulin-Like Growth Factor Binding Protein 3 Antibody / IBP-3 Antibody should be determined by the researcher.

Immunogen

Recombinant human full-length IGFBP3 protein was used as the immunogen for the Insulin-like growth factor-binding protein 3 antibody.

Storage

Aliquot the Insulin-like growth factor-binding protein 3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

IGFBP3 antibody, Insulin-like growth factor-binding protein 3 antibody, IGFBP-3 antibody, IGF-binding protein 3 antibody, IBP-3 antibody, IBP3 antibody, BP-53 antibody

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