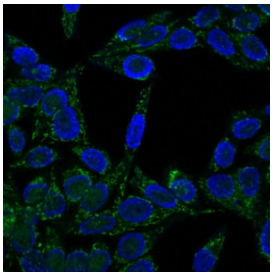
Insulin-Like Growth Factor 1 Antibody IGF1/1020 / IGF-1 Protein Antibody [clone IGF1/1020] (V2616)

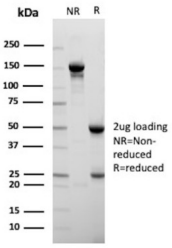
Catalog No.	Formulation	Size
V2616-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2616-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2616SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	IGF1/1020
Purity	Protein G affinity chromatography
UniProt	P05019
Localization	Cytoplasmic (secreted)
Applications	Flow cytometry: 0.5-1ug/10^6 cells Immunofluorescence: 1-4ug/ml
Limitations	This Insulin-Like Growth Factor 1 Antibody IGF1/1020 / IGF-1 Protein Antibody is available for research use only.



Insulin-Like Growth Factor 1 Antibody IGF1/1020 Detection in HeLa Cervical Cancer Cells IF. Immunofluorescence analysis of human HeLa cervical cancer cells using Insulin-Like Growth Factor 1 Antibody, clone IGF1/1020, directly conjugated to CF647R (green), with DAPI nuclear counterstaining (blue). The image shows green immunoreactivity concentrated predominantly in the cytoplasm and perinuclear regions, while nuclei are defined by blue DAPI staining. The observed cellular pattern demonstrates detection by this IGF-1 Protein Antibody under the tested conditions.



Purified Insulin-Like Growth Factor 1 Antibody IGF1/1020 Under Reducing and Non-Reducing Conditions. SDS-PAGE analysis of 2 ug of purified Insulin-Like Growth Factor 1 Antibody, clone IGF1/1020, under non-reducing (NR) and reducing (R) conditions. The non-reduced antibody migrates predominantly near 150 kDa. Following reduction, prominent bands corresponding to the antibody heavy and light chains are visible at approximately 50 kDa and 25 kDa, respectively. The observed banding pattern supports the integrity and purity of the monoclonal IGF-1 Protein Antibody preparation.

Description

Insulin-Like Growth Factor 1 Antibody IGF1/1020 / IGF-1 Protein Antibody recognizes insulin-like growth factor 1 (IGF1), a secreted polypeptide growth factor structurally related to insulin. Also historically known as Somatomedin C, IGF1 participates in the regulation of somatic growth, cellular proliferation, differentiation, survival, and metabolic homeostasis. Its production is influenced by growth hormone, providing an important molecular connection between endocrine growth signals and their effects on peripheral tissues.

IGF1 signals primarily through the insulin-like growth factor 1 receptor (IGF1R), a receptor tyrosine kinase that activates intracellular pathways including PI3K-AKT and RAS-MAPK. These signaling networks regulate processes such as protein synthesis, cell-cycle progression, metabolism, and resistance to apoptosis. The biological availability and activity of IGF1 are additionally influenced by insulin-like growth factor binding proteins, which modulate its stability, distribution, and interaction with receptors.

The IGF1 signaling system is widely investigated in growth and developmental biology, metabolism, aging, and cancer research. Alterations in IGF1 production or signaling can affect normal growth, while increased activity of the IGF1-IGF1R axis has been studied in relation to tumor-cell proliferation, survival, and resistance to apoptosis. IGF1 therefore provides an important molecular target for investigating both normal growth-factor biology and disease-associated signaling mechanisms.

Clone IGF1/1020 is a mouse monoclonal antibody generated using full-length recombinant human IGF1 protein as the immunogen. The datasheet reports specificity for IGF-1 with minimal cross-reaction with the listed related proteins. NSJ Bioreagents offers this Insulin-Like Growth Factor 1 Antibody for researchers investigating IGF1 expression and growth-factor biology. An Insulin-Like Growth Factor 1 Antibody provides an additional monoclonal reagent for studying IGF-1 Protein and its roles in cellular growth and signaling.

For an alternative IGF1 reagent with western blot, immunofluorescence, flow cytometry, and tissue-based validation, see our IGF1 Antibody / Somatomedin C Antibody page.

Application Notes

Optimal dilution of the Insulin-Like Growth Factor 1 Antibody IGF1/1020 / IGF-1 Protein Antibody should be determined by the researcher.

Immunogen

Full-length recombinant human IGF1 protein was used as the immunogen for the Insulin-Like Growth Factor 1 Antibody IGF1/1020.

Storage

Store the Insulin-Like Growth Factor 1 Antibody IGF1/1020 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

IGF1 antibody, Insulin-like growth factor 1 antibody, Insulin-like growth factor I antibody, IGF-1 antibody, Somatomedin C antibody

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