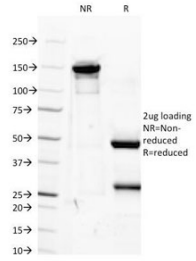
IGF-1 Antibody M23 / IGF1 Monoclonal Antibody [clone M23] (V2139)

Catalog No.	Formulation	Size
V2139-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2139-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2139SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Citations (12)

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	M23
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	3479
Localization	Cytoplasmic (Secreted)
Applications	Flow cytometry: 0.5-1ug/10^6 cells Immunofluorescence: 1-2ug/ml
Limitations	This IGF-1 Antibody M23 / IGF1 Monoclonal Antibody is available for research use only.



Purified IGF-1 Antibody M23 Under Reducing and Non-Reducing Conditions. SDS-PAGE analysis of 2 ug of purified, BSA-free IGF-1 Antibody, clone M23, under non-reducing (NR) and reducing (R) conditions. Under non-reducing conditions, the intact 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 IGF1 Monoclonal Antibody preparation.

Description

IGF-1 Antibody M23 / IGF1 Monoclonal Antibody recognizes insulin-like growth factor 1 (IGF1), a secreted polypeptide growth factor structurally related to insulin. Also known as Somatomedin C, IGF1 is an important mediator of growth hormone activity and participates in the regulation of somatic growth, cellular proliferation, differentiation, survival, and metabolism. IGF1 is synthesized as a precursor protein that undergoes processing to generate the biologically active mature growth factor.

IGF1 exerts many of its biological effects through the insulin-like growth factor 1 receptor (IGF1R), a receptor tyrosine kinase that activates downstream signaling pathways including PI3K-AKT and RAS-MAPK. These pathways influence protein synthesis, cell-cycle progression, glucose and lipid metabolism, and resistance to apoptosis. IGF1 activity is further regulated by insulin-like growth factor binding proteins, which influence the stability, distribution, and receptor availability of the growth factor.

The IGF1 signaling system is widely investigated in developmental biology, metabolism, aging, and cancer. Altered IGF1 production or signaling can affect normal growth and tissue homeostasis, while increased activity of the IGF1-IGF1R axis has been studied in relation to malignant cell proliferation, survival, and resistance to apoptosis. These biological functions have made IGF1 an important target for research into endocrine growth regulation, growth-factor signaling, and tumor biology.

Clone M23 is a mouse monoclonal antibody generated using purified human IGF1 protein as the immunogen. NSJ Bioreagents offers this IGF-1 Antibody for researchers investigating IGF1 expression and growth-factor biology. An IGF-1 Antibody such as this IGF1 Monoclonal Antibody provides an established clone for investigating the expression and biological roles of insulin-like growth factor 1.

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

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the IGF-1 Antibody M23 / IGF1 Monoclonal Antibody to be titered up or down for optimal performance.

Immunogen

Purified human insulin-like growth factor 1 protein was used as the immunogen for this IGF-1 Antibody M23.

Storage

Store the IGF-1 Antibody M23 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

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

References (2)

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