

Mouse Insulin-like Growth Factor-1 (IGF-1) Monoclonal Antibody | anti-IGF1 antibody

Insulin-like Growth Factor-1 (IGF-1) Mouse Monoclonal Antibody

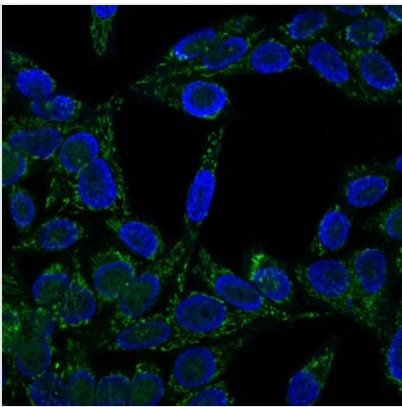
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13834	Mouse	Human, Mouse, Rat, Rabbit	Flow Cytometry, Functional Assay, Immunofluorescence

PRODUCT SYNONYMS

Insulin-like Growth Factor-1 (IGF-1); Monoclonal Antibody; Insulin-like Growth Factor-1 (IGF-1) Mouse Monoclonal Antibody; Insulin-like Growth Factor IA (IGF-IA); Insulin-like Growth Factor IB (IGF-IB); Mechano Growth Factor (MGF); Somatomedin-C; anti-IGF1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Rabbit
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	IGF1/1020
Specificity	This antibody is specific to Insulin-like Growth Factor (IGF-1) and shows minimal cross-reaction with IGF-11, Proinsulin, MSF, and Insulin. IGF-1 is a polypeptide growth factor with two isoforms that are produced by alternative splicing. Isoform 1 is also known as IGF-IB while isoform 2 is known as IGF-IA. IGF-1 stimulates the proliferation of a wide range of cell types including muscle, bone and cartilage tissue. It functions as an autocrine regulator of growth. Activation of IGF system has emerged as a key factor for tumor progression and resistance to apoptosis in many cancers like those of breast, thyroid and colon.
Form/Format	Purified Ab with BSA and Azide at 200 ug/mL.
Applicable Applications for anti-IGF1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence)
Application Notes	Flow cytometry (Flow) 1-2 ug/million cells. Immunofluorescence (IF) 1-3 ug/mL
Cellular Localization	Secreted
Immunogen	Recombinant full length human IGF-1 protein
Positive Control	K562 cells (FC). HeLa cells (IF). IGF-1 recombinant protein (WB).
Research Areas	Breast Cancer, Cardiovascular, AKT Signaling, Mesenchymal Stem Cell Differentiation, Neural Stem Cells, Neuroinflammation, Signal Transduction, Stem Cell Differentiation
Preparation and Storage	Antibody with azide - store at 2 to 8 degree.



IF (Immunofluorescence)
Immunofluorescence Analysis of HeLa cells labeling IGF-1. IGF-1 Mouse Monoclonal Antibody (IGF/1020) conjugated to CF647R (green). DAPI (blue) nuclear counterstain.

ADDITIONAL INFORMATION

References	Rotwein p, et. al. (1986) J. Biol. Chem. 261: 4828-4832. Sandberg-Nordqvist AC, et. al. (1993) Cancer Res. 53: 2475-2478. Zheng WH, et. al. (2000) J. Neural.Transm. Suppl. 2000: 261-272
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	11024682
NCBI GeneID	3479
NCBI Accession #	NP_000609.1
NCBI GenBank Nucleotide #	NM_000618.4
UniProt Accession #	P05019; P01343; Q14620; B2RWM7; E9PD02
Molecular Weight	~7.6kDa
NCBI Official Full Name	insulin-like growth factor I isoform 4 preproprotein
NCBI Official Synonym Full Names	insulin like growth factor 1
NCBI Official Symbol	IGF1
NCBI Official Synonym Symbols	MGF; IGF-I; IGF-I
NCBI Protein Information	insulin-like growth factor I
UniProt Protein Name	Insulin-like growth factor I
UniProt Gene Name	IGF1
UniProt Synonym Gene Names	IBP1; IGF-I; MGF
UniProt Entry Name	IGF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.