Human IGF-I Antibody

Monoclonal Mouse IgG_1 Clone # 56408

Catalog Number: MAB291

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IGF-I in ELISAs and Western blots. In ELISAs, this antibody does not cross-react with recombinant mouse (rm) IGF-I, rmIGF-II, or recombinant human IGF-II.
Source	Monoclonal Mouse IgG_1 Clone # 56408
Purification	Protein A or G purified from ascites
Immunogen	*E. coli*-derived recombinant human IGF-I Gly49-Ala118 Accession # P01343
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human IGF-I (Catalog # 291-G1) under non-reducing conditions only
Human IGF-I Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human IGF-I Antibody (Catalog # MAB291)
ELISA Detection	0.1-0.4 µg/mL	Human IGF-I Biotinylated Antibody (Catalog # BAF291)
Standard		Recombinant Human IGF-I (Catalog # 291-G1)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

IGF-I belongs to the family of insulin-like growth factors and circulates in complex with IGF binding proteins. It is a potent mitogenic growth factor that binds the heteromeric type I and type II IGF receptors. Essentially, all of the biological activities of IGF-I are mediated by IGF-I R.