Human BMP-7 Biotinylated Antibody

Monoclonal Mouse IgG_1 Clone # 164324

Catalog Number: BAM354

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BMP-7 in ELISAs. In ELISAs, this antibody shows less than 0.125% cross-reactivity with recombinant human (rh) BMP-2, rhBMP-3, rhBMP-4, rhBMP-5, rhBMP-6, rhBMP-8, rhTGF-β1, rhTGF-β2, or rhTGF-β3.
Source	Monoclonal Mouse IgG_1 Clone # 164324
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human BMP-7 Arg292-His431 Accession # P18075
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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.*

Human BMP-7 Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human BMP-7 Antibody (Catalog # MAB3542)
ELISA Detection	0.5-2.0 µg/mL	Human BMP-7 Biotinylated Antibody (Catalog # BAM354)
Standard		Recombinant Human BMP-7 (Catalog # 354-BP)

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.
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

BMP-7, also known as Osteogenic Protein 1 (OP-1), is one of at least 15 structurally and functionally related BMPs, which are members of the TGF-β superfamily. BMPs regulate cartilage and bone formation, embryogenesis and morphogenesis of various tissues and organs, and growth, differentiation, chemotaxis, and apoptosis of various cell types. Biologically active BMP-7 is a disulfide-linked homodimer. Cellular responses to BMP-7 have been shown to be mediated by the formation of hetero-oligomeric complexes of type I and type II serine/threonine kinase receptors.

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