

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BMP-2/BMP-7 Heterodimer in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human (rh) BMP-2 is observed, and no cross-reactivity with rhBMP-4/7, -4, -5, -6, -7, or -8 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 369505
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human BMP-2/BMP-7 Heterodimer Ala284-Arg396 (BMP-2), Ser293-His431 (BMP-7) Accession # NP_001191, NP_001710
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Bone Morphogenetic Protein 7 (BMP-7), also known as osteogenic protein 1 (OP-1), and BMP-2 are members of the BMP subgroup of the TGF- β superfamily and signal through heterodimeric complexes composed of type I and type II BMP receptors. After proteolytic removal of their propeptides, BMP-2 and BMP-7 can associate into 38 kDa disulfide-linked heterodimers. The heterodimers are significantly more potent than either homodimer in osteoblast differentiation and bone formation assays. Human and mouse BMP-2 and BMP-7 share 100% and 98% aa sequence identity, respectively.

PRODUCT SPECIFIC NOTICES

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