

DESCRIPTION

Species Reactivity	Human
Specificity	Detects the pro region of the human BMP-2 precursor in direct ELISAs and Western blots. This antibody does not recognize mature recombinant human BMP-2.
Source	Monoclonal Mouse IgG _{2A} Clone # 253717
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human BMP-2 Ala22-Lys281 (Arg245Ser, Arg279Ser) Accession # P12643
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.
Immunohistochemistry	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

BMP-2, a member of the transforming growth factor beta (TGF-β) superfamily, is synthesized as an inactive precursor protein. The N-terminal pro region is removed via proteolytic cleavage to liberate a free 114 amino acid C-terminal fragment that forms a disulfide-linked active BMP-2 homodimer. BMP-2 modulates growth and differentiation of many cell types through its interaction with heterodimeric receptors composed of BMPR-II complexed with BMPR-IA or -IB.

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