

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse BMP-10 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) BMP-10 and less than 10% cross-reactivity with rhBMP-8a and recombinant mouse (rm) BMP-8b is observed. No cross-reactivity with rmBMP-3, -4, -5
Source	Monoclonal Rat IgG _{2A} Clone # 654319
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human BMP-10 Asn314-Arg421 Accession # Q9R229
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.

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

Bone morphogenetic protein 10 (BMP-10) is a TGF-β superfamily member whose expression is restricted to the developing and postnatal heart. It is synthesized as a 424 amino acid (aa) pre-proprotein with a putative 21 aa signal peptide, a 292 aa propeptide, and a 108 aa mature protein. Mature BMP-10 is secreted as a 25 kDa disulfide-linked homodimer. The mouse BMP-10 proprotein shares 86% and 95% aa sequence identity with human and rat BMP-10, respectively.

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