

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BMPR-II in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human (rh) BMP R-IA or rhBMPR-IB.
Source	Monoclonal Mouse IgG _{2B} Clone # 73805
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human BMPR-II Ala26-Ile151 Accession # Q13873
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.

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

Like other members of the TGF-β superfamily, cellular responses to bone morphogenetic proteins (BMPs) have been shown to be mediated by the binding to heteromeric complex of type I and type II serine-threonine kinase receptors. Both receptor types are required for the signal transduction. BMP receptor II (BMPR-II) is one of the five mammalian type II receptors (including TGF-βR-II, ActR-II, ActR-IIB, BMPR-II and MISR-II) for the TGF-β superfamily ligands. The type II receptors for TGF-β and activin bind ligands with high affinity by itself. In contrast, BMPR-II binds BMP-2, BMP-4 and BMP-7 weakly in the absence of type I receptor, and the binding can be facilitated by the presence of the type I receptor. BMPR-II mRNA is widely expressed in fetal and adult tissues. Human and mouse BMPR-II are highly conserved sharing 97% sequence identity.

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