

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 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.