

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects mouse BMP-8b in direct ELISAs and human and mouse in Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse (rm) BMP-8a and less than 1% cross-reactivity with recombinant human (rh) BMP-3b, r
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse BMP-8b Thr261-His399 Accession # NP_031585
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

BMP-8b (Bone morphogenetic protein 8b; also OP-3) is a 16 kDa predicted mature and 45 kDa precursor member of the Gbb-60A class of the BMP family of molecules. In mouse, precursors to sperm and oocytes arise from the proximal epiblast around day E7.5 (days 18-20 in human). This lineage commitment is a response to BMP-4 signaling, which is promoted by the repressive action of BMP-8b on the anterior visceral endoderm, a source of BMP-4 antagonism. Mouse BMP-8b preproprecursor is 399 amino acids (aa) in length. It contains a 19 aa signal sequence, a 241 aa prosegment, and a 139 aa mature region. An interchain disulfide bond occurs at Cys363, generating a homodimer. Over aa 261-399, mouse BMP-8b shares 74% aa identity with mouse BMP-8a, and 69% and 93% aa identity with human and rat BMP-8b, respectively.

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.