

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 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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