

## DESCRIPTION

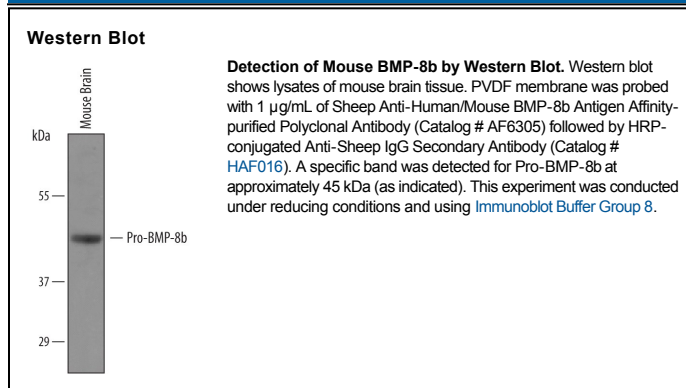
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects mouse BMP-8b in direct ELISAs and human and mouse in Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse (rm) BMP-8a and less than 1% cross-reactivity with recombinant human (rh) BMP-3b, rhBMP-10, and rm BMP-10 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse BMP-8b Thr261-His399 Accession # NP_031585
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## 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.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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 preprecursor 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.