

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat BMP-15/GDF-9B in Western blots and recombinant mouse in direct ELISAs. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) BMP-15 is observed and less than 1% cross-reactivity with rhBMP-3 a
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse BMP-15/GDF-9B Gln268-Arg392 Accession # Q9Z0L4
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-15 (Bone morphogenetic protein 15; also GDF-9B) is a 24-26 kDa member of the TGF-β superfamily of proteins. It is expressed by late primary follicle oocytes, where it promotes the transition of preantral granulosa cells to cumulus cells, and later the expansion of cumulus cells. Mouse BMP-15 precursor is a 50-55 kDa, 367 amino acid (aa) glycoprotein. It is proteolytically cleaved to generate a 40 kDa prosegment (aa 26-267) plus a 24 kDa, 124 aa mature region (aa 268-392) that may be phosphorylated (on Ser7 of the mature molecule) and/or glycosylated. Secreted BMP-15 does not occur as a mature homodimer, but it does exist as a mature monomer, an uncleaved precursor, or as a noncovalent heterodimer composed of a cleaved mature region and its prosegment. The heterodimer may also form an oligomer. The BMP-15 prosegment reportedly forms a noncovalent heterodimer with 20 kDa mature GDF-9. Mature mouse BMP-15 shares 70% and 91% aa identity with human and rat BMP-15, respectively.

PRODUCT SPECIFIC NOTICES

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