Mouse/Rat BMP-15/GDF-9B Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5917

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 and rhBMP-10 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse BMP-15/GDF-9B Gln268-Arg392 Accession # Q9Z0L4
Formulation	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.

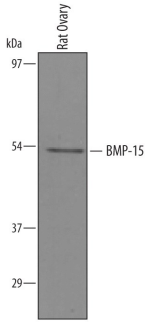
APPLICATIONS

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
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Rat BMP-15/GDF-9B by Western Blot. Western blot shows lysates of rat ovary tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse/Rat BMP-15/GDF-9B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5917) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for BMP-15/GDF-9B proprecursor at approximately 54 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 proprecursor 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 proprecursor, 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.

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