

DESCRIPTION

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|---------------------------|---|
| Species Reactivity | Mouse |
| Specificity | Detects mouse BMP-15/GDF-9B in direct ELISAs. In this format, no cross-reactivity with recombinant human BMP1.1, 2, 3, 3b, 4, 5, 6, 7, 8, 9, 10, 15, recombinant mouse BMP-3, 3b, 4, 5, 6, 7, 8b, 9, or 10 is observed. |
| Source | Monoclonal Rat IgG _{2A} Clone # 582703 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human 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. |

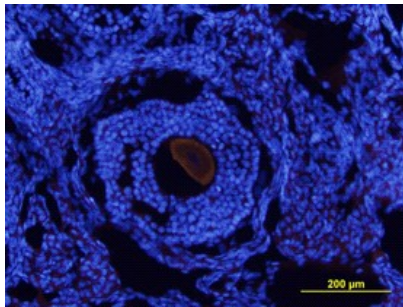
APPLICATIONS

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 |
|-----------------------------|----------------------------------|---------------|
| Immunohistochemistry | 8-25 µg/mL | See Below |

DATA

Immunohistochemistry



BMP-15/GDF-9B in Mouse Ovary. BMP-15/GDF-9B was detected in perfusion fixed frozen sections of adult mouse ovary using Mouse BMP-15/GDF-9B Monoclonal Antibody (Catalog # MAB5917) at 10 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to an oocyte within the ovary. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

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|--------------------------------|--|
| Reconstitution | Reconstitute at 0.5 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. <ul style="list-style-type: none"> ● 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

Bone morphogenetic protein 15 (BMP-15), also known as GDF-9B, is a member of the TGF-β superfamily. Mature BMP-15 has three intrachain disulfide bands that form a cysteine-knot fold. It is secreted as a 34 kDa non-disulfide-linked homodimer and as a 37 kDa nondisulfide heterodimer with GDF-9. BMP-15 is a product of oocytes and promotes granulosa cell proliferation and stem cell factor secretion. Mature mouse BMP-15 shares 44% aa sequence identity with mature mouse GDF-9. It also shares 70% and 78% aa sequence identity with human and sheep BMP-15, respectively.