Mouse BMP-15/GDF-9B Antibody

Monoclonal Rat IgG_{2A} Clone # 582703

Catalog Number: MAB5917

DESCRIPTION

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	*E. coli*-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.

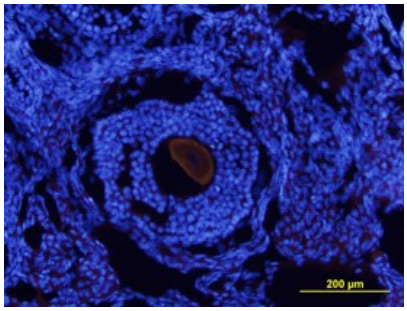
APPLICATIONS

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

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.** ● 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.