

## DESCRIPTION

Specificity	GDF-9
Source	Murine
Product Form / Appearance	Clear, Colorless solution
Product Type	Monoclonal Antibody
Isotype	IgG1
Package Size	100 µg

## SPECIFICATIONS

Species Reactivity	Human, Mouse
Immunogen	Recombinant GDF-9
Purification	Purified from hybridoma culture supernatant using Protein G.
Concentration	Batch Specific – refer to Certificate of Analysis report
Activity	Determined by direct ELISA
Composition	Phosphate Buffered Saline, 10mM, pH 7.4 (no preservatives)

## PREPARATION AND STORAGE

Reconstitution	Not Applicable. Provided in liquid format.
Shipping Conditions	This product is shipped on dry ice. Upon receipt, store it immediately at the temperature recommended below.
Storage	Store at -20°C to -80°C as supplied. Avoid repeated freeze-thaw cycles.

## APPLICATIONS

This product has been reported to work in the following applications. This information is derived from testing within our laboratory, peer-reviewed publications or personal communications from the originators. Optimal dilutions should be determined by each laboratory for each application.

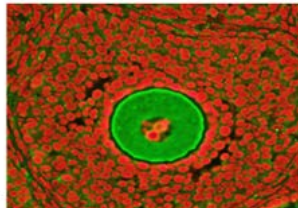
	Status	Recommended Concentration
Western Blotting	Recommended	1-2 µg/mL
Immunohistochemistry	Recommended	5-10 µg/mL

## APPLICATION IMAGES

### Immunofluorescence: 5 µg/ml

Paraffin-embedded mouse ovary section stained with 5 µg/ml GDF-9 monoclonal antibody showing oocyte-specific staining (green) of preantral follicle.

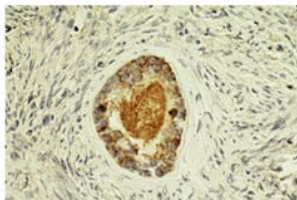
Image courtesy of Dr. T. Rajendra Kumar, UC Denver



### Immunohistochemistry: 5 µg/ml

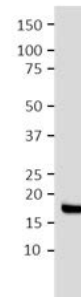
Formalin-fixed human ovary section stained with 5 µg/ml GDF-9 monoclonal antibody.

Image courtesy of Dr. Claus Andersen, Univ. of Copenhagen



### Western Blotting: 1-2 µg/ml

Under reducing conditions this antibody detects the 16 kDa GDF-9 mature monomer protein purified from CHO cells.



## REFERENCES OR CITATIONS

Mamsen LS, Kelsey TW, Ernst E, Macklon KT, Lund AM, Andersen CY. Cryopreservation of ovarian tissue may be considered in young girls with galactosemia. *J Assist Reprod Genet.* 2018 Jul;35(7):1209-1217. doi: 10.1007/s10815-018-1209-2.

Mamsen LS, Kristensen SG, Pors SE, Bøtkjær JA, Ernst E, Macklon KT, Gook D, Kumar A, Kalra B, Andersen CY. Consequences of β-Thalassemia or Sickle Cell Disease for Ovarian Follicle Number and Morphology in Girls Who Had Ovarian Tissue Cryopreserved. *Front Endocrinol (Lausanne).* 2021 Jan 15;11:593718. doi: 10.3389/fendo.2020.593718.