

## Datasheet

### Anti-GDF9 Clone 72B

Product Name	Anti Human GDF9 72B
Catalogue Number	72B
Clone, Isotype	72B, IgG1
Format	IgG
Tested Applications	ELISA, WB

#### **Description:**

GDF9 plays a vital role in ovarian folliculogenesis, follicle development and fertility. Clone 72B can be used in assays to detect GDF9 expression and help diagnose ovarian disorders (Gilchrist, R.B. et al.), (Courtney, M et al.).

#### **Product Details:**

**Form in stock:** IgG, purified – 1.0 mg/mL. Also available as unpurified supernatant.

**Host:** Rat

**Specificity:** N-terminal of GDF9, corresponding to sequence KKPLGPASFNLSEYFC.

**Human Histology positive control:** Ovary

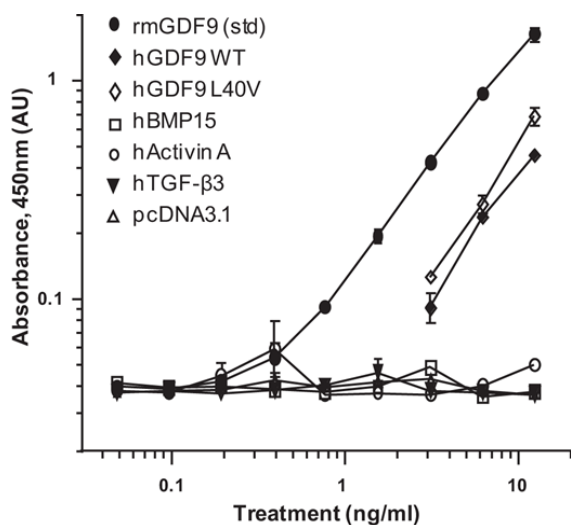
**Storage:** Store at +4°C or -20°C. Avoid repeated freezing and thawing.

**Shelf life:** 18 months from date of dispatch.

**Regulatory/ Restrictions:** For research and commercial purposes.

Applications	Suggested Dilution
Western Blot	Assay dependent
ELISA	500ng / 50µL <sup>2</sup>

## Applications:



### Clone 72B used to detect GDF9 expression by **ELISA**

**Image caption:** GDF9 ELISA. A GDF9 ELISA was developed to measure the amount of GDF9 in HEK-293T conditioned medium. Recombinant mouse GDF9 (●) was used as a standard, and the specificity of the assay was assessed using a range of TGF-β family members; wild-type human GDF9 (◆), human GDF9 L40V (◇), human BMP15 (□), human activin A (○), and human TGF-β3 (▼). Dilutions of concentrated media from cells transfected with empty vector, pcDNA3.1 (r), were included as controls. The ELISA has a specificity of less than 0.1%, with a sensitivity of 0.2 ng/mL. Values represent mean ± SEM in duplicate, from a representative experiment. (Courtney, M et al.)

**Dilution used:** 500ng / 50μL

## References:

1. Gilchrist, R.B., Ritter, L.J., Cranfield, M., Jeffery, L.A., Amato, F., Scott, S.J., Myllymaa, S., Kaivo-Oja, N., Lankinen, H., Mottershead, D.G., Groome, N.P., Ritvos, O. (2004) Immunoneutralization of Growth Differentiation Factor 9 Reveals It Partially Accounts for Mouse Oocyte Mitogenic Activity. *Biol Reprod*; 71 (3): 732-739.
2. Simpson, C.M., Robertson, D.M., Al-Musawi, S.L., Heath, D.A., McNatty, K.P., Ritter, L.J., Mottershead, D.G., Gilchrist, R.B., Harrison, C.A., Stanton, P.G. (2014) Aberrant GDF9 Expression and Activation Are Associated With Common Human Ovarian Disorders. *Journal of Clinical Endocrinology & Metabolism*; 99 (4): E615-E624.