



Anti-rat MIS/AMH Antibody

ORDERING INFORMATION

Catalog Number: AF1446

Lot Number: JET01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: rat MIS, mouse MIS

Immunogen: *E. coli*-derived rrMIS (aa 447 - 553)

Ig Type: rat MIS specific goat IgG

Applications: Direct ELISA
Western blot
Immunohistochemistry

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant mature rat Müllerian-inhibiting Substance (rrMIS; aa 447 - 553). Rat MIS specific IgG was purified by rat MIS affinity chromatography. MIS, also known as anti-Müllerian hormone (AMH), belongs to the TGF-β superfamily. It is produced by the fetal testis and plays a central role in male sex differentiation. Postnatally, MIS is expressed in both the testis and the ovary, where it also has a regulatory role in gonadal functions.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Endotoxin Level

< 0.5 EU per 1 µg of the antibody as determined by the LAL method.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize rat and mouse MIS in direct ELISAs and western blots.

Applications

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect rat and mouse MIS. The detection limit for rrMIS and rmMIS is approximately 0.6 ng/well. In this format, this antibody shows approximately 50% cross-reactivity with rhMIS.

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect rat and mouse MIS. The detection limit for rrMIS and rmMIS is approximately 5 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry - This antibody will detect MIS in cells and tissues. The working dilution is 2 - 5 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

Optimal dilutions should be determined by each laboratory for each application.