



Anti-human MIS/AMH Propeptide Antibody

ORDERING INFORMATION

Catalog Number: AF2748

Lot Number: VSJ01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human MIS propeptide

Immunogen: NS0-derived rhMIS propeptide

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry
Direct ELISA

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human Mullerian Inhibitory Substance propeptide (rhMIS propeptide; aa 19 - 450; Accession # P03971). Human MIS propeptide specific IgG was purified by human MIS propeptide affinity chromatography. MIS, also known as anti-Mullerian Hormone (AMH), belongs to the TGF-β superfamily. It is synthesized as a 140 kDa homodimeric glycoprotein that undergoes proteolytic cleavage into the bioactive homodimeric 26 kDa carboxy-terminus and the 110 kDa dimeric amino-terminus. After cleavage, the amino-terminal propeptide remains non-covalently associated with the bioactive carboxy-terminal active protein. The amino acid sequence of human and mouse MIS propeptides are 67% identical.

Formulation

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

Endotoxin Level

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 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 human MIS propeptide in the applications listed below.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human MIS propeptide. The detection limit for rhMIS propeptide is approximately 20 ng/lane and 10 ng/lane under non-reducing and reducing conditions, respectively.

Immunohistochemistry - This antibody will detect human MIS propeptide in cells and tissues. Antigen retrieval is recommended. The working dilution is 3 - 10 µg/mL. For chromogenic detection of labeling, use R&D Systems Cell and Tissue Staining Kits (CTS Series).

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human MIS propeptide. The detection limit for rhMIS propeptide is approximately 0.3 ng/well. In this format, this antibody shows less than 1% cross-reactivity with mature rhMIS.

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

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12/26/06