

Anti-AMH Antibody

HA500137



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, FC
Molecular Wt:	Predicted band size: 59 kDa.

Description: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate N- and C-terminal cleavage products that homodimerize and associate to form a biologically active noncovalent complex. This complex binds to the anti-Mullerian hormone receptor type 2 and causes the regression of Mullerian ducts in the male embryo that would otherwise differentiate into the uterus and fallopian tubes. This protein also plays a role in Leydig cell differentiation and function and follicular development in adult females. Mutations in this gene result in persistent Mullerian duct syndrome.

Immunogen: Recombinant protein within human AMH aa 50-230.

Positive control: 293T cell lysate, A431 cell lysate, HepG2 cell lysate, Hela cell lysate, mouse testis tissue lysate, rat testis tissue lysate, 293T, rat testis tissue, Hela.

Subcellular location: Secreted.

Database links: SwissProt: P03971 Human | P27106 Mouse | P49000 Rat

Recommended Dilutions:

WB	1:1,000-1:5,000
IHC-P	1:50-1:200
FC	1:50-1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

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Orders:0086-571-88062880

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Images

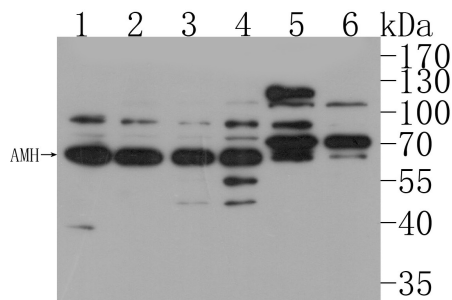


Fig1: Western blot analysis of AMH on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (HA500137, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

Positive control:

Lane 1: 293T cell lysate
 Lane 2: A431 cell lysate
 Lane 3: HepG2 cell lysate
 Lane 4: Hela cell lysate
 Lane 5: Mouse testis tissue lysate
 Lane 6: Rat testis tissue lysate

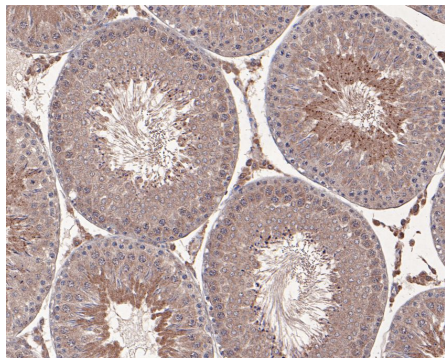


Fig2: Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-AMH antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA500137, 1/100) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

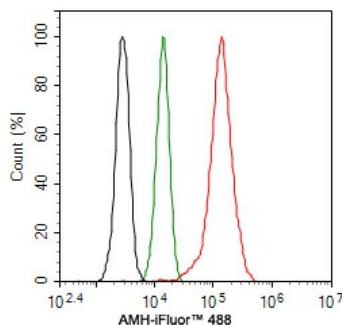


Fig3: Flow cytometric analysis of Hela cells labeling AMH.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA500137, 1ug/ml) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Shrikhande L. et. al. AMH and Its Clinical Implications. J Obstet Gynaecol India. 2020 Oct
2. Umer S. et. al. AMH: Could It Be Used as A Biomarker for Fertility and Superovulation in Domestic Animals? Genes (Basel). 2019 Dec

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