Anti-AMH Antibody [PSH13-48] - BSA and Azide free

HA751467

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse, Rat, Human
Applications:	WB, IHC-Fr, IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 59 kDa
Clone number:	PSH13-48

Description: Anti-Müllerian hormone (AMH), also known as Müllerian-inhibiting hormone (MIH), is a glycoprotein hormone structurally related to inhibin and activin from the transforming growth factor beta superfamily, whose key roles are in growth differentiation and folliculogenesis. In humans, it is encoded by the AMH gene, on chromosome 19p13.3, while its receptor is encoded by the AMHR2 gene on chromosome 12. AMH is activated by SOX9 in the Sertoli cells of the male fetus. Its expression inhibits the development of the female reproductive tract, or Müllerian ducts (paramesonephric ducts), in the male embryo, thereby arresting the development of fallopian tubes, uterus, and upper vagina. AMH expression is critical to sex differentiation at a specific time during fetal development, and appears to be tightly regulated by nuclear receptor SF-1, transcription GATA factors, sex-reversal gene DAX1, and follicle-stimulating hormone (FSH). Mutations in both the AMH gene and the type II AMH receptor have been shown to cause the persistence of Müllerian derivatives in males that are otherwise normally masculinized.

Immunogen: Recombinant protein within human AMH aa 411-560.

Positive control: Mouse ovary tissue lysate, Mouse testis tissue lysate, Rat ovary tissue lysate, mouse ovary tissue, rat ovary tissue.

Subcellular location: Secreted.

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

Recommended Dilutions:

WB	1:5,000
IHC-Fr	1:500
IHC-P	1:500-1:2,000
IF-Tissue	1:500

Storage Buffer: 1*PBS (pH7.4).

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

Purity: Protein A affinity purified.

Images

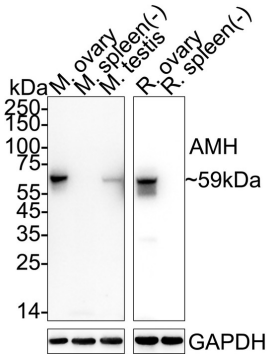

Fig1: Western blot analysis of AMH on different lysates with Rabbit anti-AMH antibody (HA751467) at 1/5,000 dilution.

Lane 1: Mouse ovary tissue lysate
Lane 2: Mouse spleen tissue lysate (negative)
Lane 3: Mouse testis tissue lysate
Lane 4: Rat ovary tissue lysate
Lane 5: Rat spleen tissue lysate (negative)

Lysates/proteins at 40 µg/Lane.

Predicted band size: 59 kDa
Observed band size: 59 kDa

Exposure time: Lane 1-3: 42 seconds; Lane 4-5: 10 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751467) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

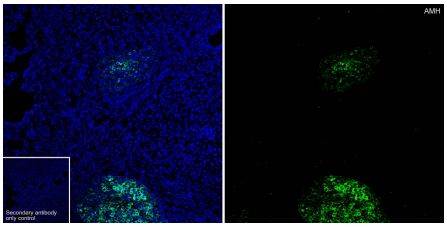

Fig2: Application: IHC-Fr

Species: Mouse

Site: ovary

Sample: Frozen section

Antibody concentration: 1/500

Antigen retrieval: Not required

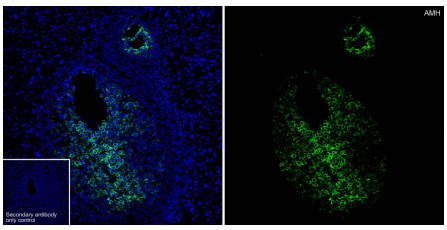

Fig3: Application: IHC-Fr

Species: Rat

Site: ovary

Sample: Frozen section

Antibody concentration: 1/500

Antigen retrieval: Not required

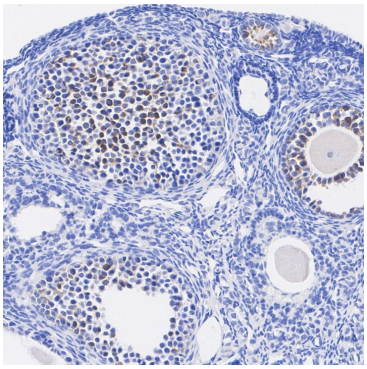

Fig4: Immunohistochemical analysis of paraffin-embedded mouse ovary tissue with Rabbit anti-AMH antibody (HA751467) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA751467) at 1/500 dilution for 1 hour 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.

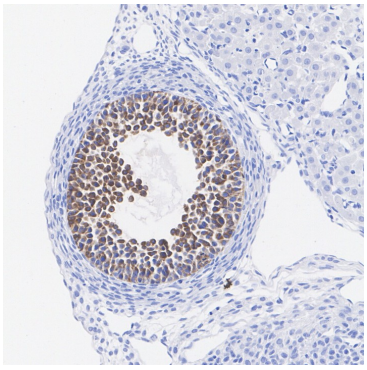

Fig5: Immunohistochemical analysis of paraffin-embedded rat ovary tissue with Rabbit anti-AMH antibody (HA751467) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA751467) at 1/2,000 dilution for 1 hour 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.

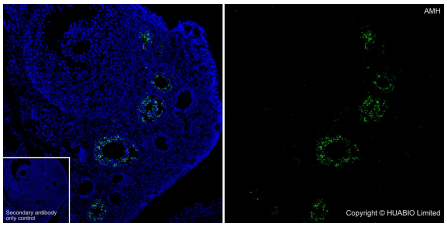

Fig6: Application: IF-Tissue

Species: Mouse

Site: ovary

Sample: Paraffin-embedded section

Antibody concentration: 1/500

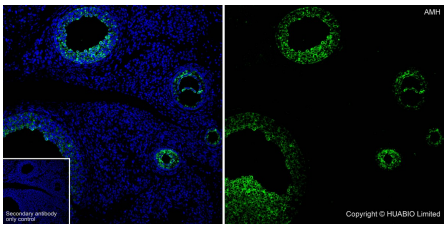

Fig7: Application: IF-Tissue

Species: Rat

Site: ovary

Sample: Paraffin-embedded section

Antibody concentration: 1/500

Background References

1. Cedars MI. Evaluation of Female Fertility-AMH and Ovarian Reserve Testing. J Clin Endocrinol Metab. 2022 May
2. Howard JA et al. Molecular Mechanisms of AMH Signaling. Front Endocrinol (Lausanne). 2022 Jun