

Anti-AMH Antibody Picoband™

Catalog Number: A00763

About AMH

Anti-Müllerian hormone (AMH), also known as MIF or MIS, is a protein that in humans is encoded by the AMH gene. It is a hormone that inhibits the development of the Müllerian ducts (paramesonephric ducts) in the male embryo. Expression of AMH is activated by SOX9 in the male Sertoli cells and causes the irreversible regression of the Müllerian ducts. Because AMH expression is critical to sex differentiation at a specific time during fetal development, it appears to be tightly regulated by SF1, GATA factors, DAX1 and FSH. 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.

Overview

Product Name	Anti-AMH Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-AMH Antibody Picoband™ catalog # A00763. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P03971

Technical Details

Immunogen	E.coli-derived human AMH recombinant protein (Position: A75-E141). Human AMH shares 66.7% amino acid (aa) sequence identity with both mouse and rat AMH.
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human</p>

Anti-AMH Antibody Picoband™ (A00763) Images

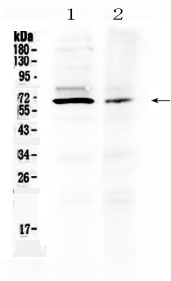


Figure 1. Western blot analysis of AMH using anti-AMH antibody (A00763).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: 293T whole Cell lysates,

Lane 2: COLO320 whole Cell lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AMH antigen affinity purified polyclonal antibody (Catalog # A00763) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for AMH4 at approximately 65KD. The expected band size for AMH is at 59KD.

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