BOSTER BIOLOGICAL TECHNOLOGY
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Anti-FSH Receptor/FSHR Antibody Picoband®

Catalog Number: PB10065

About FSHR

The follicle-stimulating hormone receptor or FSH receptor (FSHR) is a transmembrane receptor that interacts with the follicle-stimulating hormone (FSH) and represents a G protein-coupled receptor (GPCR). This FSHR gene is mapped to chromosome 2p21 by fluorescence in situ hybridization. The protein encoded by this gene belongs to family 1 of G-protein coupled receptors. It is the receptor for follicle stimulating hormone and functions in gonad development. Mutations in this gene cause ovarian dysgenesis type 1, and also ovarian hyperstimulation syndrome. Alternative splicing results in multiple transcript variants.

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Overview

Product Name	Anti-FSH Receptor/FSHR Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-FSH Receptor/FSHR Antibody Picoband® catalog # PB10065. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P23945

Technical Details

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Immunogen	E. coli-derived human FSH Receptor recombinant protein (Position: C18-N187). Human FSH Receptor shares 91.2% and 90% amino acid (aa) sequence identity with mouse and rat FSH Receptor, respectively.
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	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

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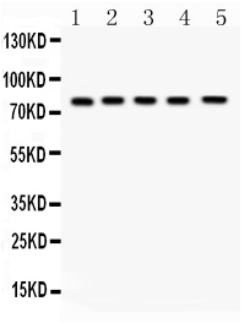
Anti-FSH Receptor/FSHR Antibody Picoband® (PB10065) Images



Western blot analysis of FSH Receptor using anti-FSH Receptor antibody (PB10065). 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 30 ug of sample under reducing conditions. Lane 1: rat testis tissue lysates Lane 2: rat ovary tissue lysates Lane 3: mouse testis tissue lysates Lane 4: mouse ovary tissue lysates, Lane 5: HELA whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-FSH Receptor antigen affinity purified polyclonal antibody (Catalog # PB10065) 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 1:5000 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 FSH Receptor at approximately 78 kDa. The expected band size for FSH Receptor is at 78 kDa.

5 Publications Citing This Product

1. PubMed ID: 31993999, Luo Q,Liu R,Wang L,Hou Y,Zhang H.The Effects of Inhibin B in the Chemotherapy Drug-Induced Premature Ovarian Insufficiency Mice and hPMSCs Treatment.Reprod Sci.2020 May;27(5):1148-1155.doi:10.1007/s43032-019-00128-y.Epub 2020 Jan 28.PMID:31993999.

2. PubMed ID: 26010950, Evaluation of Follicular Synchronization Caused by Estrogen Administration and Its Reproductive Outcome

3. PubMed ID: 28432272, Establishment of an in vitro culture model of theca cells from hierarchical follicles in ducks

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