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Anti-FSH Receptor Picoband Antibody

Catalog # ABO10124

Specification

Anti-FSH Receptor Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P23945
Host	**Rabbit**
Reactivity	**Human, Mouse**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Follicle-stimulating hormone receptor(FSH-R)(FSHR) detection. Tested with WB in Human;Mouse.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-FSH Receptor Picoband Antibody - Additional Information

Gene ID 2492

Other Names
Follicle-stimulating hormone receptor, FSH-R, Follitropin receptor, FSHR, LGR1

Calculated MW
78265 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Mouse

Subcellular Localization
Cell membrane; Multi-pass membrane protein.

Tissue Specificity
Sertoli cells and ovarian granulosa cells.

Protein Name
Follicle-stimulating hormone receptor(FSH-R)

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human FSH Receptor (414-438aa YLLLIASVDIHTKSQYHNYAIDWQT), identical to the related mouse and rat sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-FSH Receptor Picoband Antibody - Protein Information

Name FSHR

Synonyms LGR1

Function
G protein-coupled receptor for follitropin, the follicle- stimulating hormone (PubMed:11847099, PubMed:24058690, PubMed:24692546). Through cAMP production activates the downstream PI3K-AKT and ERK1/ERK2 signaling pathways (PubMed:24058690).

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Sertoli cells and ovarian granulosa cells.

Anti-FSH Receptor Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-FSH Receptor Picoband Antibody - Images

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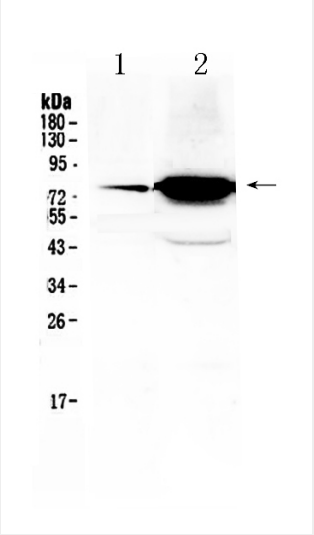

Figure 1. Western blot analysis of FSH Receptor using anti- FSH Receptor antibody (ABO10124). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse ovary tissue lysates, Lane 2: HELA 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- FSH Receptor antigen affinity purified polyclonal antibody (Catalog # ABO10124) at 0.5 Î¼g/mL overnight at 4Â°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 with Tanon 5200 system. A specific band was detected for FSH Receptor at approximately 78KD. The expected band size for FSH Receptor is at 78KD.

Anti-FSH Receptor Picoband Antibody - Background

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.