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Anti-PREB Picoband Antibody
Catalog # ABO13039

Specification

Anti-PREB Picoband Antibody - Product Information

Application	**WB**
Primary Accession	Q9HCU5
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Prolactin regulatory element-binding protein(PREB) detection. Tested with WB in Human.

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

Anti-PREB Picoband Antibody - Additional Information

Gene ID 10113

Other Names
Prolactin regulatory element-binding protein, Mammalian guanine nucleotide exchange factor mSec12, PREB, SEC12

Calculated MW
45468 MW KDa

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

Subcellular Localization
Endoplasmic reticulum membrane ; Single-pass membrane protein . Nucleus . Concentrates at endoplasmic reticulum exit sites. .

Tissue Specificity
Ubiquitous. .

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

Immunogen
E. coli-derived human PREB recombinant protein (Position: K42-N236). Human PREB shares 87.7% amino acid (aa) sequence identity with both mouse and rat PREB.

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-PREB Picoband Antibody - Protein Information

Name PREB {ECO:0000303|PubMed:10920239, ECO:0000312|HGNC:HGNC:9356}

Function
Guanine nucleotide exchange factor (GEF) that regulates the assembly of the coat protein complex II/COPII in endoplasmic reticulum (ER) to Golgi vesicle-mediated transport. Selectively activates SAR1A and SAR1B by promoting the exchange of guanosine diphosphate (GDP) for guanosine triphosphate (GTP) in these small GTPases (PubMed:32358066). In their activated GTP-bound state, SAR1A and SAR1B insert into the membrane of the endoplasmic reticulum where they recruit the remainder of the coat protein complex II/COPII which is responsible for both the sorting of proteins and the deformation and budding of membranes into vesicles destined to the Golgi (PubMed:32358066).

Cellular Location
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9WTV0}; Single-pass membrane protein {ECO:0000250|UniProtKB:Q9WTV0}. Nucleus {ECO:0000250|UniProtKB:Q9WTV0} Note=Concentrates at endoplasmic reticulum exit sites (ERES), also known as transitional endoplasmic reticulum (tER)

Tissue Location
Ubiquitous.

Anti-PREB 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-PREB Picoband Antibody - Images

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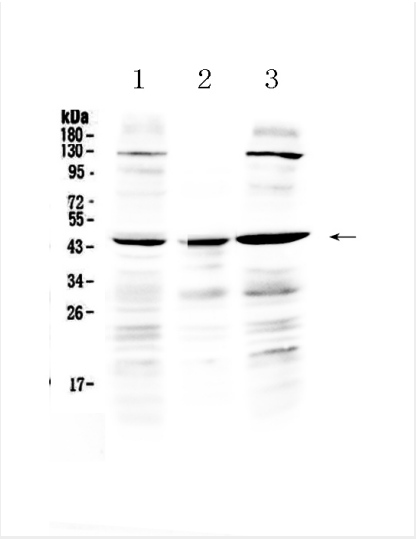

Figure 1. Western blot analysis of PREB using anti-PREB antibody (ABO13039).

Anti-PREB Picoband Antibody - Background

Prolactin regulatory element-binding protein is a protein that in humans is encoded by the PREB gene. This gene encodes a protein that specifically binds to a Pit1-binding element of the prolactin (PRL) promoter. This protein may act as a transcriptional regulator and is thought to be involved in some of the developmental abnormalities observed in patients with partial trisomy 2p. This gene overlaps the abhydrolase domain containing 1 (ABHD1) gene on the opposite strand.