

Anti-PREB Picoband Antibody

Catalog # ABO13039

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.

Additional Information

Gene ID	10113
Other Names	Prolactin regulatory element-binding protein, Mammalian guanine nucleotide exchange factor mSec12, PREB, SEC12
Calculated MW	45468
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. .
Source	Eukaryota
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 reconstitution, 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.

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.

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.

Images

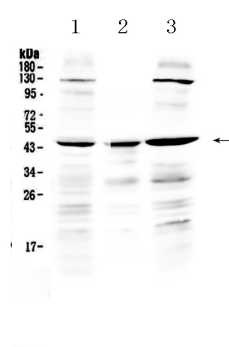


Figure 1. Western blot analysis of PREB using anti-PREB antibody (ABO13039).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.