

PREB Antibody

Rabbit mAb

Catalog # AP92975

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	Q9HCU5
Reactivity	Human
Clonality	Monoclonal
Other Names	Preb; SEC12;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	45468

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human PREB
Description	Was first identified based on its probable role in the regulation of pituitary gene transcription. Binds to the prolactin gene (PRL) promoter and seems to activate transcription (By similarity). Guanine nucleotide exchange factor that activates SARA2. Required for the formation of COPII transport vesicles from the ER.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

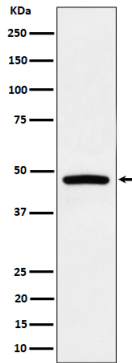
Name	PREB {ECO:0000303 PubMed:10920239, ECO:0000312 HGNC:HGNC:9356}
Function	Guanine nucleotide exchange factor (GEF) that regulates the assembly of the coat protein complex II/COPII in endoplasmic reticulum (ER) to Golgi vesicle-mediated transport. Selectively activates SAR1A and SAR1B by promoting 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.

Images



Western blot analysis of PREB expression in Raji cell lysate.

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