

KD-Validated Anti-PREB Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2247

Product Information

Application	WB
Primary Accession	Q9HCU5
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB4240
Calculated MW	45468
Gene Name	PREB
Aliases	PREB; Prolactin Regulatory Element Binding; SEC12; Prolactin Regulatory Element-Binding Protein; Guanine Nucleotide-Exchange Factor SEC12; Mammalian Guanine Nucleotide Exchange Factor MSec12
Immunogen	Recombinant protein of human PREB

Additional Information

Gene ID	10113
Other Names	Guanine nucleotide-exchange factor SEC12, Prolactin regulatory element-binding protein, PREB {ECO:0000303 PubMed:10920239, ECO:0000312 HGNC:HGNC:9356}

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.
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