

KD-Validated Anti-PREB Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2247**Specification****KD-Validated Anti-PREB Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	Q9HCU5
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	P redicted, 45 kDa; observed, 45 kDa KDa
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

KD-Validated Anti-PREB Rabbit Monoclonal Antibody - 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}

KD-Validated Anti-PREB Rabbit Monoclonal 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

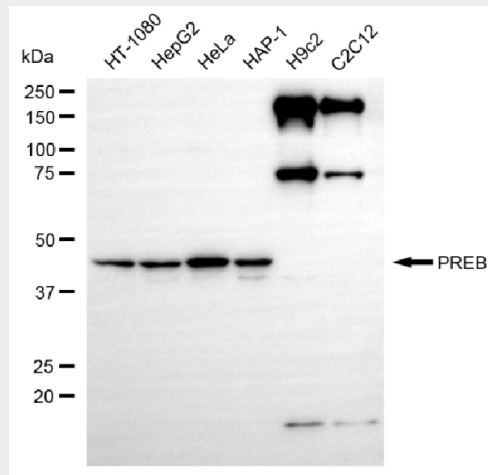
Ubiquitous.

KD-Validated Anti-PREB Rabbit Monoclonal Antibody - Protocols

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

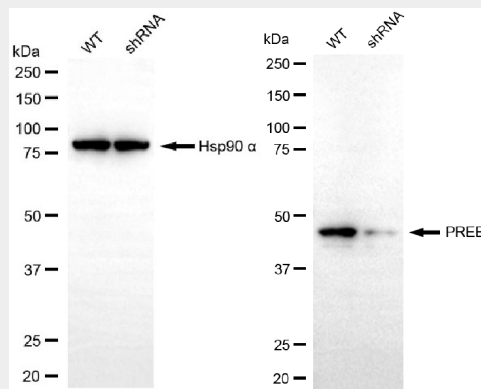
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-PREB Rabbit Monoclonal Antibody - Images



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Western blotting analysis using anti-PREB antibody (Cat#AGI2247). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PREB antibody (Cat#AGI2247, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-PREB antibody (Cat#AGI2247). PREB expression in wild-type

(WT) and PREB shRNA knockdown (KD) HeLa cells with 25 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PREB antibody (Cat#AGI2247, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.