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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)

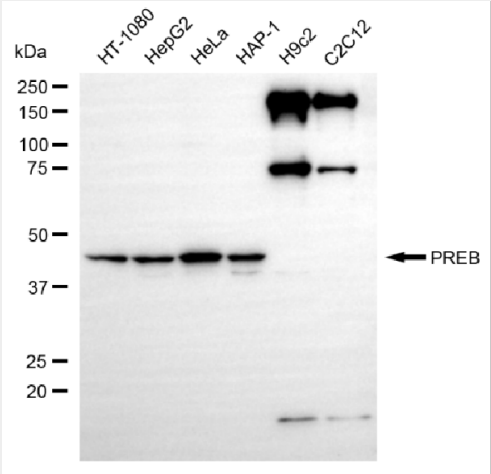
Tissue Location
Ubiquitous.

KD-Validated Anti-PREB Rabbit Monoclonal Antibody - Protocols

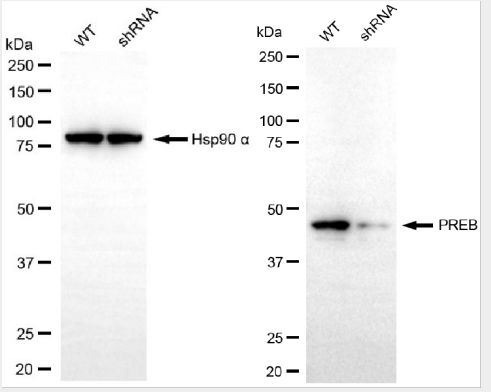
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-PREB Rabbit Monoclonal Antibody - Images



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.



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

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(WT) and PREB shRNA knockdown (KD) HeLa cells with 25 µg 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.