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PREB Rabbit mAb

Catalog # AP74885

Product Information

Application	WB, IHC-P, IP
Primary Accession	Q9HCU5
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	45468

Additional Information

Gene ID	10113
Other Names	PREB
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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

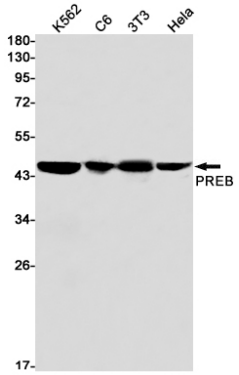
(tER)

Tissue Location Ubiquitous.

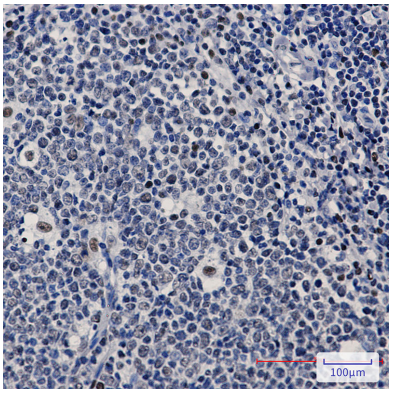
Background

Guanine nucleotide exchange factor that specifically activates the small GTPase SAR1B.

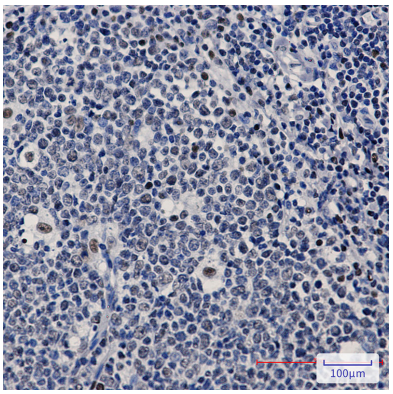
Images

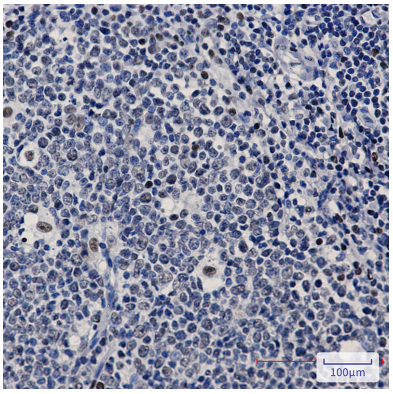


Western blot analysis of PREB in K562, C6, 3T3, Hela lysates using PREB antibody.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using PREB antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.





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