



Rabbit Anti-PREX1 antibody

SL19671R

Product Name:	PREX1
Chinese Name:	PREX1 蛋白抗体
Alias:	5)-dependent Rac exchanger 1; KIAA1415; OTTHUMP00000031228; P REX1; P Rex1 protein like; P-Rex1; Phosphatidylinositol 3,4,5 trisphosphate dependent Rac exchange factor 1; Phosphatidylinositol 3,4,5 trisphosphate dependent Rac exchanger 1; Phosphatidylinositol 3,4,5 trisphosphate dependent Rac exchanger 1 protein; Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 1 protein; Prex1; PREX1_HUMAN; PtdIns(3; PtdIns(3,4,5) dependent Rac exchanger 1; SET domain containing 6; Setd6
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	186kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PREX1:1301-1400/1659
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene acts as a guanine nucleotide exchange factor for the

RHO family of small GTP-binding proteins (RACs). It has been shown to bind to and activate RAC1 by exchanging bound GDP for free GTP. The encoded protein, which is found mainly in the cytoplasm, is activated by phosphatidylinositol-3,4,5-trisphosphate and the beta-gamma subunits of heterotrimeric G proteins. [provided by RefSeq, Jul 2008]

Function:

Functions as a RAC guanine nucleotide exchange factor (GEF), which activates the Rac proteins by exchanging bound GDP for free GTP. Its activity is synergistically activated by phosphatidylinositol-3,4,5-triphosphate and the beta gamma subunits of heterotrimeric G protein. May function downstream of heterotrimeric G proteins in neutrophils.

Subcellular Location:

Cytoplasm > cytosol. Cell membrane. Mainly cytosolic. Some amount is apparently associated to the plasma membrane.

Tissue Specificity:

Mainly expressed in peripheral blood leukocytes and brain. Expressed at intermediate level in spleen and lymph nodes, and weakly expressed in other tissues.

Similarity:

Contains 1 DEP domain.
Contains 1 DH (DBL-homology) domain.
Contains 1 PDZ (DHR) domain.
Contains 2 PH domains.

SWISS:

Q8TCU6

Gene ID:

57580

Database links:

[Entrez Gene: 57580](#) Human

[Entrez Gene: 277360](#) Mouse

[Entrez Gene: 311647](#) Rat

[Omim: 606905](#) Human

[SwissProt: Q8TCU6](#) Human

[SwissProt: Q69ZK0](#) Mouse

[Unigene: 153310](#) Human

[Unigene: 721980](#) Human

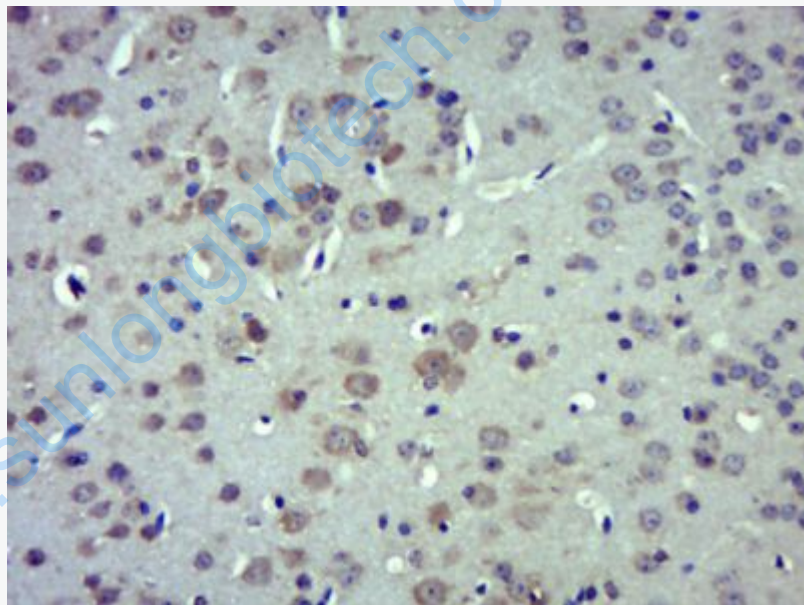
[Unigene: 34420](#) Mouse

[Unigene: 485065](#) Mouse

[Unigene: 224665](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PREX1) Polyclonal Antibody, Unconjugated (SL19671R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

