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# PREX1 Rabbit pAb

Catalog # AP98713

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q8TCU6 |
| **Other Accession** | Q8TCU6 |
| **Reactivity** | Mouse |
| **Predicted** | Rat, Human, Dog |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 186203 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human PREX1 |
| **Epitope Specificity** | 1301-1400/1659 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Contains 1 DEP domain. Contains 1 DH (DBL-homology) domain. Contains 1 PDZ (DHR) domain. Contains 2 PH domains. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | 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] |

## Additional Information

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| **Gene ID** | 57580 |
| **Other Names** | P-REX1; G630042G04; Setd6; RGD1306534; PREX1_HUMAN; PREX1; PtdIns(3, 4, 5)-dependent Rac exchanger 1; KIAA1415; PREX1_MOUSE; phosphatidylinositol-3, 4, 5-trisphosphate dependent Rac exchange factor 1; phosphatidylinositol-3, 4, 5-trisphosphate-dependent Rac exchange factor 1; PIP3 dependent Rac exchange factor 1 |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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. |

## Protein Information

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| **Name** | PREX1 |
| **Synonyms** | KIAA1415 |
| **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-trisphosphate and the beta gamma subunits of heterotrimeric G protein. May function downstream of heterotrimeric G proteins in neutrophils. |
| **Cellular Location** | Cytoplasm, cytosol. Cell membrane. Note=Mainly cytosolic. Some amount is apparently associated to the plasma membrane |
| **Tissue Location** | Mainly expressed in peripheral blood leukocytes and brain. Expressed at intermediate level in spleen and lymph nodes, and weakly expressed in other tissues |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.