

Mouse Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 1 protein (PREX1) ELISA Kit

Catalog No: #EK8301

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Package Size: #EK8301-1 48T #EK8301-2 96T

Description

Product Name	Mouse Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 1 protein (PREX1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	KIAA1415; P-REX1; phosphatidylinositol 3;4;5-trisphosphate-dependent Rac exchanger 1
Accession No.	Q69ZK0
Uniprot	Q69ZK0
GeneID	277360;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PREX1 in samples. An antibody specific for PREX1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPREX1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PREX1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PREX1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PREX1 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.PREX1 has a tandem DH/PH domain typical of RHO family GEFs, 2 DEP and 2 PDZ domains, and significant similarity over its C-terminal half to inositol polyphosphate 4-phosphatase. Northern blot analysis detected expression of a 6-kb major transcript and a slightly smaller minor transcript mainly in peripheral blood leukocytes and brain, with lower expression in spleen and lymph nodes and much weaker expression in most

other tissues.

Note: This product is for in vitro research use only