

Human Phosphatase and actin regulator 1 (PHACTR1) ELISA Kit

Catalog No: #EK8531

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Package Size: #EK8531-1 48T #EK8531-2 96T

Description

Product Name	Human Phosphatase and actin regulator 1 (PHACTR1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP1-257A7.1; KIAA1733; MGC126575; MGC126577; RPEL; RPEL1; dJ257A7.2; RPEL repeat containing 1
Accession No.	Q9C0D0
Uniprot	Q9C0D0
GeneID	221692;
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:23.44-1500 pg/mL

Sensitivity:5.86 pg/mL

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 PHACTR1 in samples. An antibody specific for PHACTR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPHACTR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PHACTR1 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 PHACTR1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The PHACTR proteins share highest similarity in sequences surrounding the N- and C-terminal RPEL repeats and in the C-terminal actin- and PP1-binding domains. In situ hybridization of rat brain showed enrichment of Phactr1 in cerebral cortex, hippocampus, olfactory tubercle, nucleus accumbens, caudate-putamen, and piriform cortex. Endogenous PP1 coprecipitated with ectopically expressed rat Phactr1 in human embryonic kidney cells. Phactr1 also coprecipitated with actin in rat brain lysates. Yeast 2-hybrid analysis of a series of Phactr1 C-terminal truncation mutants indicated that PP1 bound to Phactr1 near the C terminus, while actin bound in a region containing RPEL repeats 2 and 3.

Note: This product is for in vitro research use only