

Human Actin-like protein 6A (ACTL6A) ELISA Kit

Catalog No: #EK7685



Package Size: #EK7685-1 48T #EK7685-2 96T

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Description

Product Name	Human Actin-like protein 6A (ACTL6A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ACTL6; ARPN-BETA; Arp4; BAF53A; INO80K; MGC5382; BAF complex 53 kDa subunit BAF53 BRG1-associated factor INO80 complex subunit K actin-related protein 4 hArpN beta
Accession No.	O96019
Uniprot	O96019
GeneID	86;
Storage	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. 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).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.057 ng/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 ACTL6A in samples. An antibody specific for ACTL6A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyACTL6A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACTL6A 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 ACTL6A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**ACTL6A encodes a family member of actin-related proteins (ARPs), The 429-amino acid BAF53 protein shares extensive amino acid homology with actin and the yeast actin-related proteins Act2 and Act3. In addition, sequences encoding BAF53 homologs were identified in yeast and C. elegans. Two of 3 amino acids (asp11, gln137, and asp154 in actin) involved in tight calcium binding are conserved (asp17 and asp171 in BAF53).

In contrast with the overall homology to actin, the ATP-binding pocket in actin is poorly conserved in BAF53, suggesting that BAF53 may not have ATP-binding activity. A comparison of the sequences of actin family members revealed that BAF53 is most related to Arp3, which is involved in Listeria motility.

Note: This product is for in vitro research use only