Human Plexin domain-containing protein 1 (PLXDC1) ELISA Kit

Catalog No: #EK11177

Package Size: #EK11177-1 48T #EK11177-2 96T

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Description

Product Name	Human Plexin domain-containing protein 1 (PLXDC1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp686F0937; FLJ36270; FLJ45632; TEM3; TEM7; 2410003I07Rik|tumor endothelial marker 7
Accession No.	Q8IUK5
Uniprot	Q8IUK5
GeneID	57125;
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:62.5-4000 pg/mL

Sensitivity:38 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 PLXDC1 in samples. An antibody specific for PLXDC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLXDC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLXDC1 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 PLXDC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TEM7 was expressed clearly in the endothelial cells of the tumor stroma but not in the endothelial cells of normal colonic tissue. Using in situ hybridization to assay expression in various normal adult mouse tissues, they observed that Tem7 was largely undetectable in mouse tissues or tumors, but was abundantly expressed in mouse brain.

TEM7 coding region, which encodes a 500-amino acid type I transmembrane protein containing a plexin-like domain. TEM3 and TEM7 differ in the use of alternative polyadenylation sites but result in the same predicted protein. The mouse ortholog of TEM7 shares 81% amino acid identity with the human protein.

Note: This product is for in vitro research use only