

## Human Plexin-D1 (PLXND1) ELISA Kit

Catalog No: #EK11459



Package Size: #EK11459-1 48T #EK11459-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Human Plexin-D1 (PLXND1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAA0620; MGC75353; PLEXD1;
Accession No.	Q9Y4D7
Uniprot	Q9Y4D7
GeneID	23129;
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:0.156-10 ng/mL

Sensitivity:0.062 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 PLXND1 in samples. An antibody specific for PLXND1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLXND1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLXND1 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 PLXND1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Tamagnone et al. (1999) identified the cDNA sequence of a novel member of the plexin gene family and named the gene plexin D1. Plxnd1 was expressed by embryonic vascular endothelial cells. Expression was robust in endocardium, intersomitic vessels, pulmonary vasculature, aorta, and pharyngeal arch arteries. In adult mice, Plxnd1 was expressed in heart, brain, lung, kidney, and testis, consistent with broad expression in endothelial cells. Human vascular endothelial cells also expressed PLXND1. Gitler et al. (2004) demonstrated that mouse Plxnd1 heterodimerized with Npn1 to form a functional Sema3C receptor. Binding of Sema3A and Sema3C to COS cells expressing Npn1 was enhanced by cotransfection of Plxnd1. Plxnd1 also enhanced binding of Sema3C to Npn2.

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Note: This product is for in vitro research use only