

# Mouse Von Willebrand factor A domain-containing protein 1 (VWA1) ELISA Kit

Catalog No: #EK5849

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

Package Size: #EK5849-1 48T #EK5849-2 96T

## Description

Product Name	Mouse Von Willebrand factor A domain-containing protein 1 (VWA1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	DKFZp761O051; FLJ22215; WARP; von Willebrand factor A domain-related protein
Accession No.	Q8R2Z5
Uniprot	Q8R2Z5
GeneID	246228;
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:31.25-2000 pg/mL

Sensitivity:12.4 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 VWA1 in samples. An antibody specific for VWA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyVWA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VWA1 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 VWA1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The deduced 418-amino acid human protein contains a signal sequence, followed by a VA domain, 2 fibronectin type III (F3) repeats, and a short pro/arg-rich C terminus. The VA domain has a putative metal ion-dependent adhesion site (MIDAS) motif and 2 potential O-linked glycosylation sites, and each F3 domain has a putative N-glycosylation site. Human WARP shares 79% amino acid identity with mouse Warp. RT-PCR of mRNA from various mouse tissues and cell lines detected Warp expression only in chondrocytes. Northern blot analysis confirmed expression of Warp in chondrocytes isolated from newborn mouse rib cartilage. Western blot analysis of transfected human embryonic kidney cells detected a 48-kD protein in both cell layer and media fractions.

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Note: This product is for in vitro research use only