Human P2Y purinoceptor 1 (P2RY1) ELISA Kit

Catalog No: #EK8701

Package Size: #EK8701-1 48T #EK8701-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human P2Y purinoceptor 1 (P2RY1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	P2Y1; ATP receptor|P2 purinoceptor subtype Y1|P2Y purinoceptor 1|platelet ADP receptor|purinergic receptor P2Y1
Accession No.	P47900
Uniprot	P47900
GeneID	5028;
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:0.055 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 P2RY1 in samples. An antibody specific for P2RY1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyP2RY1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for P2RY1 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 P2RY1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:P2RY1 belongs to the family of G-protein coupled receptors. This family has several receptor subtypes with different pharmacological selectivity, which overlaps in some cases, for various adenosine and uridine nucleotides. This receptor functions as a receptor for extracellular ATP and ADP. In platelets binding to ADP leads to mobilization of intracellular calcium ions via activation of phospholipase C, a change in platelet shape, and probably to platelet aggregation. The pharmacologic properties of the P2Y1 receptor are similar to those of the P2T ADP receptor that is responsible for platelet aggregation. They showed that the P2Y1 receptor is expressed by human platelets and megakaryoblasts. The authors suggested that the P2Y1 receptor may be the P2T receptor.

Note: This product is for in vitro research use only