Rat Prolyl hydroxylases (PHD) ELISA Kit

Catalog No: #EK11481

Package Size: #EK11481-1 48T #EK11481-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Rat Prolyl hydroxylases (PHD) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	P4HA; C-P4Halpha(I)|collagen prolyl 4-hydroxylase alpha(I)|procollagen-proline; 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase); alpha polypeptide I|prolyl 4-hydroxylase; alpha I subunit
Accession No.	P54001
Uniprot	P54001
GeneID	64475;
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:370.4-30000 pg/mL

Sensitivity:152.5 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 P4HA1 in samples. An antibody specific for P4HA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyP4HA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for P4HA1 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 P4HA1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PHF8 belongs to the family of ferrous iron and 2-oxoglutarate dependent oxygenases, and is active as a histone lysine demethylase with selectivity for the di-and monomethyl states.

Mutations in PHF8 cause Siderius type X-linked mental retardation (XLMR). In addition to moderate mental retardation, features of the Siderius-Hamel syndrome include facial dysmorphism, cleft lip and/or cleft palate, and in some cases microcephaly. A chromosomal microdeletion on Xp11.22 encompassing all of the PHF8 and FAM120C genes and a part of the WNK3 gene was reported in two brothers with autism spectrum disorder in addition to Siderius-type XLMR and cleft lip and palate.

Note: This product is for in vitro research use only