Mouse Hypoxia-inducible factor 1-alpha inhibitor (HIF1AN) ELISA Kit

Catalog No: #EK11572

Package Size: #EK11572-1 48T #EK11572-2 96T

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

Description

Product Name	Mouse Hypoxia-inducible factor 1-alpha inhibitor (HIF1AN) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DKFZp762F1811; FIH1; FLJ20615; FLJ22027; factor inhibiting HIF1|hypoxia-inducible factor 1; alpha subunit inhibitor|peptide-aspartate beta-dioxygenase
Accession No.	Q8BLR9
Uniprot	Q8BLR9
GeneID	319594;
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:0.065 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 HIF1AN in samples. An antibody specific for HIF1AN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyHIF1AN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for HIF1AN 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 HIF1AN bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The deduced 349-amino acid HIF1AN protein is homologous to rat Pass1 and to fly and worm sequences, indicating evolutionary conservation of this protein family. Binding analyses of truncated HIF1AN peptides showed that the inhibitory domain rather than the transactivating domains of HIF1A interacts with HIF1AN, although the presence of TAD-C optimizes binding. Functional analysis indicated that HIAF1AN inhibits HIF1A transcriptional activity in hypoxic and nonhypoxic cells. Further binding analysis determined that the N terminus of HIF1AN interacts with the N terminus of VHL, and that both interact with HIF1A at distinct sites (VHL with TAD-N of HIF1A), allowing the formation of ternary complexes of the 3 proteins.

Note: This product is for in vitro research use only