Human Leucine-rich repeat serine/threonine-protein kinase 2 (LRRK2) ELISA Kit

Catalog No: #EK10034

Package Size: #EK10034-1 48T #EK10034-2 96T

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

Description

Product Name	Human Leucine-rich repeat serine/threonine-protein kinase 2 (LRRK2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AURA17; DARDARIN; PARK8; RIPK7; ROCO2; augmented in rheumatoid arthritis 17
Accession No.	Q5S007
Uniprot	Q5S007
GeneID	120892;
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:78.1-5000 pg/mL

Sensitivity:33 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 LRRK2 in samples. An antibody specific for LRRK2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLRRK2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LRRK2 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 LRRK2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:LRRK2 encodes a protein with an ankyrin repeat region, a leucine-rich repeat (LRR) domain, a kinase domain, a DFG-like motif, a RAS domain, a GTPase domain, an MLK-like domain, and a WD40 domain. The protein is present largely in the cytoplasm but also associates with the mitochondrial outer membrane.LRRK2 interacts with the C-terminal R2 RING finger domain of parkin, and parkin interacted with the COR domain of LRRK2. Expression of mutant LRRK2 induced apoptotic cell death in neuroblastoma cells and in mouse cortical neurons. Mutations in this gene have been associated with Parkinson's disease type 8.Four LRRK2 gene variants found are found in a third of Parkinsons cases, but infrequent in the general population.

Note: This product is for in vitro research use only