

# Human Kelch-like ECH-associated protein 1 (KEAP1) ELISA Kit



Catalog No: #EK10232

Orders: order@signalwayantibody.com

Package Size: #EK10232-1 48T #EK10232-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Kelch-like ECH-associated protein 1 (KEAP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	INrf2; KIAA0132; KLHL19; MGC10630; MGC1114; MGC20887; MGC4407; MGC9454; cytosolic inhibitor of Nrf2
Accession No.	Q14145
Uniprot	Q14145
GeneID	9817;
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:0.056 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 KEAP1 in samples. An antibody specific for KEAP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKEAP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KEAP1 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 KEAP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**KEAP1 encodes a protein containing KELCH-1 like domains, as well as a BTB/POZ domain. Kelch-like ECH-associated protein 1 interacts with NF-E2-related factor 2 in a redox-sensitive manner and the dissociation of the proteins in the cytoplasm is followed by transportation of NF-E2-related factor 2 to the nucleus. This interaction results in the expression of the catalytic subunit of gamma-glutamylcysteine synthetase. Two alternatively spliced transcript variants encoding the same isoform have been found for this gene.Kelch motifs of Keap1 interact with the Neh2 domain of Nrf2 and that this interaction is required for the repression of Nrf2 by Keap1. Fluorescence microscopy demonstrated that Keap1 is expressed in the cytoplasm with Nrf2.

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Note: This product is for in vitro research use only