

# Human V-Ki-Ras2 Kirsten Rat Sarcoma Viral Oncogene Homolog (KRAS) ELISA Kit

Catalog No: #EK10185

Orders: order@signalwayantibody.com

Package Size: #EK10185-1 48T #EK10185-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human V-Ki-Ras2 Kirsten Rat Sarcoma Viral Oncogene Homolog (KRAS) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; KI-RAS; KRAS1; KRAS2; NS; NS3; RASK2; K-ras p21 protein Kirsten rat sarcoma-2 viral (v-Ki-ras2) oncogene homolog PR310 c-K-ras oncogene c-K-ras2 protein
Accession No.	P01116
Uniprot	P01116
GeneID	3845;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.125 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 KRAS in samples. An antibody specific for KRAS has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKRAS present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KRAS 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 KRAS bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Like other members of the Ras family, the KRAS protein is a GTPase and is an early player in many signal transduction pathways. KRAS is usually tethered to cell membranes because of the presence of an isoprenyl group on its C-terminus. When mutated, KRAS is an oncogene. The protein product of the normal KRAS gene performs an essential function in normal tissue signaling, and the mutation of a KRAS gene is an essential step in the development of many cancers.KRAS acts as a molecular on/off switch, once it is turned on it recruits and activates proteins necessary for the propagation of growth factor and other receptors' signal, such as c-Raf and PI 3-kinase. KRAS binds to GTP in the active state and possesses an intrinsic enzymatic activity which cleaves the terminal phosphate of the nucleotide converting it to GDP.

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Note: This product is for in vitro research use only