Datasheet for ABIN7319807

K-RAS Protein (His tag)

1 Image

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Overview

Quantity:	50 µg
Target:	K-RAS (KRAS)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This K-RAS protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human KRAS(G12C, N-6His)
Sequence:	Thr2-Cys185(Gly12Cys)
Characteristics:	Recombinant Human GTPase Kras is produced by our E.coli expression system and the target gene encoding Thr2-Cys185(Gly12Cys) is expressed with a 6His tag at the N-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	K-RAS (KRAS)
Alternative Name:	KRAS (KRAS Products)
Target Type:	Viral Protein
Background:	Background: K-Ras belongs to the small GTPase superfamily, Ras family. As other members of

Target Details

	the Ras family, K-Ras is a GTPase and is an early player in many signal transduction pathways. It is usually tethered to cell membranes because of the presence of an isoprenyl group on its C-terminus. K-Ras functions as a molecular on/off switch. Ras proteins bind GDP/GTP and possess intrinsic GTPase activity. Plays an important role in the regulation of cell proliferation. Plays a role in promoting oncogenic events by inducing transcriptional silencing of tumor suppressor genes (TSGs) in colorectal cancer (CRC) cells in a ZNF304-dependent manner. Besides essential function in normal tissue signaling, the mutation of a K-Ras gene is an essential step in the development of many cancers. Several germline K-Ras mutations have been found to be associated with Noonan syndrome[4] and cardio-facio-cutaneous syndrome. Somatic K-Ras mutations are found at high rates in Leukemias, colon cancer, pancreatic cancer and lung cancer. Synonym: Ki-Ras, c-K-ras, KRAS2, RASK2, CFC2
Molecular Weight:	23.6 kDa

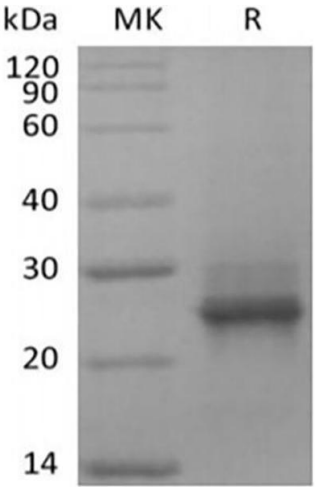
Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.