

Datasheet for ABIN7543443

Recombinant anti-K-RAS antibody (Glu12Asp Mutant)



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Overview

Quantity:	100 µg
Target:	K-RAS (KRAS)
Binding Specificity:	Glu12Asp Mutant
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This K-RAS antibody is un-conjugated
Application:	ELISA

Product Details

Purpose:	Anti-KRAS G12D mutant [D113], Rabbit IgG, kappa
Immunogen:	The original antibody was generated by immunizing mice with a synthetic dodecapeptide 'KLVVVGADGVGK'.
Clone:	D113
Isotype:	IgG kappa
Specificity:	This antibody binds the G12D mutant form of human KRAS protein. This ras protein binds GDP/GTP and possess intrinsic GTPase activity, that results in conversion of nucleotide guanosine triphosphate (GTP) into guanosine diphosphate (GDP). This protein plays an important role in many signal transduction pathways and regulation of cell proliferation. Somatic KRAS mutations are highly observed in leukemias, colorectal cancer, pancreatic

Product Details

	cancer and lung cancer. KRAS mutation is G12D which is estimated to be present in up to 37 % pancreatic cancers and over 12 % of colorectal cancers.
Characteristics:	Original Species of Ab: Mouse Original Format of Ab: IgG1
Purification:	Protein A affinity purified

Target Details

Target:	K-RAS (KRAS)
Alternative Name:	KRAS (KRAS Products)
Background:	K-Ras, GTPase Kras, KRAS2, RASK2, K-Ras 2, Ki-Ras, c-K-ras, c-Ki-ras, ras p21 protein, p21 ras, D113-2-1
UniProt:	P01116-2

Application Details

Application Notes:	The binding reactivity and epitope characterization of this antibody towards human KRAS G12D mutant was determined using ELISA (PMID: 9440050). This antibody can bind both the peptide 'KLVVVGADGVGK' conjugated BSA as well as KRAS G12D mutant in an ELISA.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.