

Datasheet for ABIN5541964
anti-K-RAS antibody (AA 1-186)



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Overview

Quantity:	0.1 mL
Target:	K-RAS (KRAS)
Binding Specificity:	AA 1-186
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This K-RAS antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Recombinant human KRAS (1-186aa) purified from E. coli.
Clone:	AT2F8
Purification:	Protein-A affinity chromatography

Target Details

Target:	K-RAS (KRAS)
Alternative Name:	kras (KRAS Products)
Target Type:	Viral Protein
Background:	KRAS acts as a molecular on/off switch. Once it is turned on, it recruits and activates proteins

Target Details

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. Upon conversion of GTP to GDP, KRAS is turned off. The rate of conversion is usually slow but can be sped up dramatically by an accessory protein of the GTPase-activating protein (GAP) class, for example RasGAP. In turn KRAS can bind to proteins of the Guanine Nucleotide Exchange Factor (GEF) class, for example SOS1, which forces the release of bound nucleotide (GDP). Subsequently, KRAS binds GTP present in the cytosol and the GEF is released from ras-GTP.

UniProt: [P01116](#)

Application Details

Application Notes: The antibody has been tested by ELISA, Western blot analysis, ICC/IF and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02 % Sodium Azide, 10 % Glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Expiry Date: 12 months