

Mouse anti-Human RAS Monoclonal Antibody | anti-RAS antibody

RAS antibody

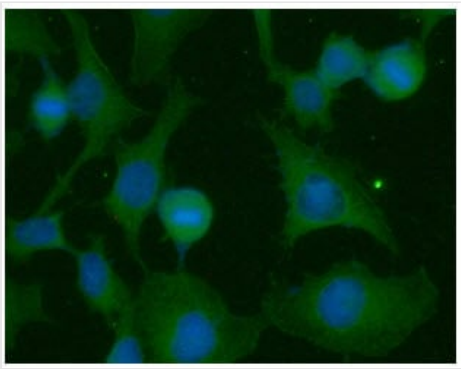
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48181	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

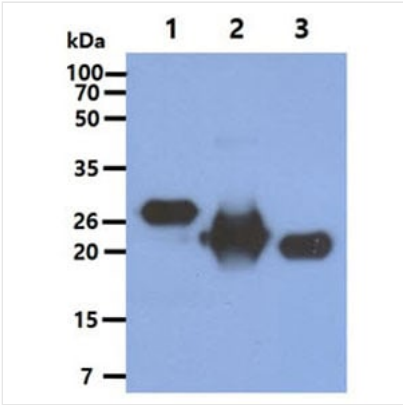
RAS; Monoclonal Antibody; RAS antibody; GTPase Kras; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; KI-RAS; KRAS1; NS3; RASK2; K RAS2B; K RAS4A; K RAS4B; KI RAS; KRAS 1; NS 3; ; anti-RAS antibody

PRODUCT SPECIFICATIONS

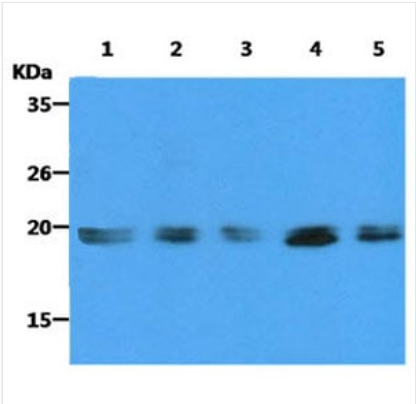
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT2F8
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (determined by BCA assay) (varies by lot)
Sequence Length	189
Applicable Applications for anti-RAS antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant human KRAS (1-186aa) purified from E. coli
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.



IF (Immunofluorescence)
ICC/IF analysis of RAS in HeLa cells. The cell was stained with AAA48181 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



WB (Western Blot)
The Recombinant proteins (100ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human RAS antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : KRAS recombinant protein Lane 2. : HRAS recombinant protein Lane 3. : NRAS recombinant protein



WB (Western Blot)
The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KRAS antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : HeLa cell lysate Lane 2. : HepG2 cell lysate Lane 3. : Ramos cell lysate Lane 4. : A549 cell lysate Lane 5. : Balb/3T3 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-RAS antibody	All RAS protein family members belong to a class of protein called small GTPase, and are involved cellular signal transduction. RAS is 'switched on' by incoming signals, it subsequently switches on other proteins, which ultimately turn on genes involved in cell growth, differentiation and survival. Mutations in RAS genes can lead to the production of permanently activated RAS proteins. This can cause unintended and overactive signaling inside the cell, even in the absence of incoming signals. Because these signals result in cell growth and division, overactive RAS signaling can ultimately lead to cancer. The 3 Ras genes in humans (HRas, KRas, NRas) are the most common oncogenes in human cancer; mutations that permanently activate RAS are found in 20% to 25% of all human tumors and up to 90% in certain types of cancer. RAS inhibitors are being studied as a treatment for cancer, and other diseases with RAS overexpression.
Product Categories/Family for anti-RAS antibody	Signal Transduction
References	McGrath JP., et al. (1983) Nature. 304 (5926): 501-506.; Schubbert S., et al. (2006) Nat Genet. 38 (3): 331-336.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15718763
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NCBI GeneID	3845
NCBI Accession #	NP_203524
NCBI GenBank Nucleotide #	NM_033360.3
UniProt Accession #	P01116; P01118; Q96D10; A8K8Z5; B0LPF9
NCBI Official Full Name	GTPase KRas isoform a
NCBI Official Synonym Full Names	KRAS proto-oncogene, GTPase
NCBI Official Symbol	KRAS
NCBI Official Synonym Symbols	NS; NS3; CFC2; RALD; K-Ras; KRAS1; KRAS2; RASK2; KI-RAS; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; c-Ki-ras2
NCBI Protein Information	GTPase KRas
UniProt Protein Name	GTPase KRas
UniProt Gene Name	KRAS
UniProt Synonym Gene Names	KRAS2; RASK2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/ras-antibody-clone-at2f8-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/48181>