

Rabbit KRAS Polyclonal Antibody | anti-KRAS antibody

KRAS Antibody (C-term)

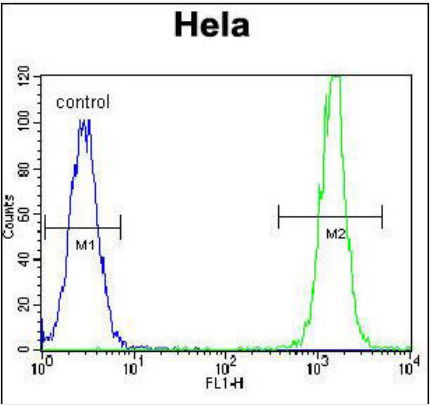
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28748	Rabbit	Human, Mouse, Rat (Predicted: Rat)	Western Blot, ELISA, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

KRAS; Polyclonal Antibody; KRAS Antibody (C-term); GTPase KRas; K-Ras 2; Ki-Ras; c-K-ras; c-Ki-ras; N-terminally processed; KRAS2; RASK2; anti-KRAS antibody

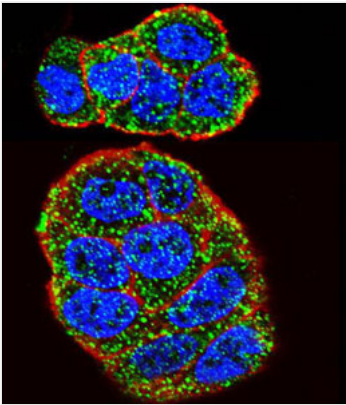
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat (Predicted: Rat)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This KRAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 146-174 amino acids from the C-terminal region of human KRAS.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	146-174
Sequence Length	188
Applicable Applications for anti-KRAS antibody	WB (Western Blot), ELISA, IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB~~1:2000 IF~~1:10~50 FC~~1:10~50
Function	Ras proteins bind GDP/GTP and possess intrinsic GTPase activity (PubMed: 20949621). Plays an important role in the regulation of cell proliferation (PubMed: 23698361 , PubMed: 22711838). 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 (PubMed: 24623306).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, cytosol
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



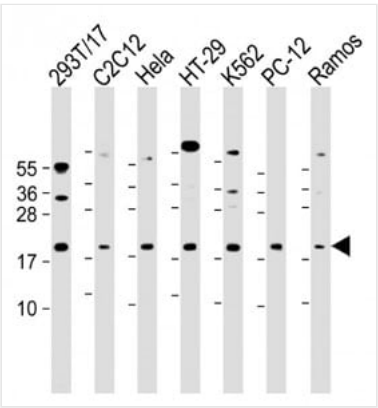
FCM (Flow Cytometry)

KRAS Antibody (C-term)(AAA28748) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



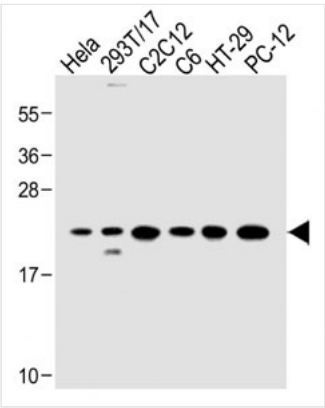
IF (Immunofluorescence)

Confocal immunofluorescent analysis of KRAS Antibody (C-term)(AAA28748) with WiDr cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



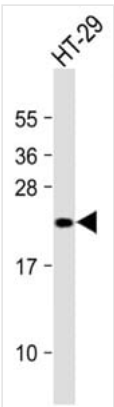
WB (Western Blot)

All lanes : Anti-KRAS Antibody (C-term) at 1:2000 dilutionLane 1: 293T/17 whole cell lysateLane 2: C2C12 whole cell lysateLane 3: Hela whole cell lysateLane 4: HT-29 whole cell lysateLane 5: K562 whole cell lysate Lane 5: PC-12 whole cell lysateLane 5: Ramos whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 22 kDaBlocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)

All lanes : Anti-KRAS Antibody (C-term) at 1:500 dilutionLane 1: Hela whole cell lysateLane 2: 293T/17 whole cell lysateLane 3: C2C12 whole cell lysateLane 4: C6 whole cell lysateLane 5: HT-29 whole cell lysateLane 6: PC-12 whole cell lysate Lysates/proteins at 20 ug per lane.Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 22 kDa



WB (Western Blot)

Anti-KRAS Antibody (C-term) at 1:2000 dilution + HT-29 whole cell lysate Lysates/proteins at 20 ug per lane.Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 22 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-KRAS antibody	This gene, a Kirsten ras oncogene homolog from the mammalian ras gene family, encodes a protein that is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma. Alternative splicing leads to variants encoding two isoforms that differ in the C-terminal region.
Product Categories/Family for anti-KRAS antibody	Cancer; Signal Transduction
References	Bruckman, K.C., et al. Oral Surg Oral Med Oral Pathol Oral Radiol Endod 110(5):632-637(2010) Wong, K.K., et al. Am. J. Pathol. 177(4):1611-1617(2010) Irahara, N., et al. Diagn. Mol. Pathol. 19(3):157-163(2010) Carotenuto, P., et al. Pharmacogenomics 11(8):1169-1179(2010) Leventopoulos, G., et al. Clin. Exp. Rheumatol. 28(4):556-557(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	15718761
NCBI GeneID	3845
NCBI Accession #	NP_004976.2; NP_203524.1
NCBI GenBank Nucleotide #	NM_004985.4
UniProt Accession #	P01116; P01118; Q96D10; A8K8Z5; B0LPF9
NCBI Official Full Name	GTPase KRas isoform b
NCBI Official Synonym Full Names	Kirsten rat sarcoma viral oncogene homolog
NCBI Official Symbol	KRAS
NCBI Official Synonym Symbols	NS; NS3; CFC2; KRAS1; KRAS2; RASK2; KI-RAS; C-K-RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B
NCBI Protein Information	GTPase KRas
UniProt Protein Name	GTPase KRas
UniProt Gene Name	KRAS
UniProt Synonym Gene Names	KRAS2; RASK2
UniProt Entry Name	RASK_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/kras-antibody-western-blot-immunofluorescence-flow-cytometry-elisa/28748>