

Rabbit BRAF Polyclonal Antibody | anti-BRAF antibody

BRAF Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326869	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

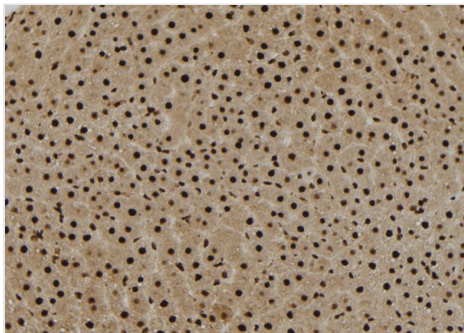
PRODUCT SYNONYMS

BRAF; Polyclonal Antibody; BRAF Antibody; FLJ95109; 94 kDa B raf protein; B raf 1; B Raf proto oncogene serine threonine protein kinase; B Raf proto oncogene; serine/threonine kinase; B RAF1; B-Raf proto-oncogene serine/threonine-protein kinase (p94); BRAF 1; BRAF_HUMAN; BRAF1; cRmil; MGC126806; MGC138284; Murine sarcoma viral (v-raf) oncogene homolog B1; Murine sarcoma viral v raf oncogene homolog B1; NS7; Oncogen BRAF; oncogene BRAF1; p94; Proto-oncogene B-Raf; Proto-oncogene c-Rmil; RAFB 1; RAFB1; RMIL; Serine/threonine-protein kinase B-raf; v raf murine sarcoma viral oncogene homolog B; v raf murine sarcoma viral oncogene homolog B1; v-Raf murine sarcoma viral oncogene homolog B1; anti-BRAF antibody

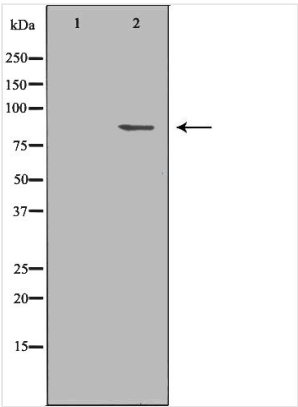
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BRAF antibody detects endogenous levels of total BRAF
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	766
Applicable Applications for anti-BRAF antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human BRAF
Subcellular Location	Nucleus. Cytoplasm. Cell Membrane. Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes.
Tissue Specificity	Brain and testis.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326869 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using BRAF Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-BRAF antibody	Description: BRAF: v-raf murine sarcoma viral oncogene homolog B1, also known as BRAF1; RAFB1; B-RAF1; FLJ95109. Entrez Protein NP_004324. It is the main effectors recruited by GTP-bound Ras to activate the MEK-MAP kinase pathway. B-Raf contains three consensus Akt phosphorylationsites (Ser364, Ser428, and Thr439). B-Raf is a key regulatory molecule of the mitogen-activated protein kinase kinase (MEK), it has a long amino-terminal region, the region is essential for homo-dimerization of B-Raf and hetero-dimerization of B-Raf and c-Raf at the plasma membrane, followed by phosphorylation of Thr118 in the amino-terminal B-Raf-specific region. Notably, in calcium ionophore-stimulated HeLa cells, B-Raf could propagate signals to MEK under the basal level of GTP-Ras. Expression of Raf-B is highly restricted with highestlevels in the cerebrum and testes and defects in braf are involved in a wide range of cancers. The BRAF gene mutation is frequently detected in papillary thyroid carcinoma, melanocytic nevi, primary cutaneous melanomas and colorectal cancers. Function: Protein kinase involved in the transduction of mitogenic signals from the cell membrane to the nucleus. May play a role in the postsynaptic responses of hippocampal neuron. Phosphorylates MAP2K1, and thereby contributes to the MAP kinase signal transduction pathway. Subunit Structure: Monomer. Homodimer. Heterodimerizes with RAF1, and the heterodimer possesses a highly increased kinase activity compared to the respective homodimers or monomers. Heterodimerization is mitogen-regulated and enhanced by 14-3-3 proteins. MAPK1/ERK2 activation can induce a negative feedback that promotes the dissociation of the heterodimer by phosphorylating BRAF at Thr-753. Found in a complex with at least BRAF, HRAS, MAP2K1, MAPK3 and RGS14. Interacts with RIT1. Interacts (via N-terminus) with RGS14 (via RBD domains); the interaction mediates the formation of a ternary complex with RAF1, a ternary complex inhibited by GNAI1 (By similarity). Interacts with DGKH (PubMed:19710016). Interacts with PRMT5 (PubMed:21917714). Interacts with KSR2 (PubMed:21441910). Interacts with AKAP13, MAP2K1 and KSR1. Identified in a complex with AKAP13, MAP2K1 and KSR1 (PubMed:21102438). Interacts with FNIP1 and FNIP2 (PubMed:27353360). Post-translational Modifications: Phosphorylation at Ser-365 by SGK1 inhibits its activity. Methylation at Arg-671 decreases stability and kinase activity. Ubiquitinated by RNF149; which leads to proteasomal degradation. Polyubiquitinated at Lys-578 in response to EGF. Similarity: Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. RAF subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	33188459
NCBI GeneID	673
NCBI Accession #	NP_004324.2
NCBI GenBank Nucleotide #	NM_004333.5
UniProt Accession #	P15056; Q13878; Q3MIN6; Q9UDP8; Q9Y6T3; A4D1T4; B6HY61; B6HY62; B6HY63; B6HY64; B6HY65; B6HY66
Molecular Weight	Observed: 84 kDa Predicted: 85 kDa

NCBI Official Full Name	serine/threonine-protein kinase B-raf isoform 1
NCBI Official Synonym Full Names	B-Raf proto-oncogene, serine/threonine kinase
NCBI Official Symbol	BRAF
NCBI Official Synonym Symbols	NS7; B-raf; BRAF1; RAFB1; B-RAF1
NCBI Protein Information	serine/threonine-protein kinase B-raf
UniProt Protein Name	Serine/threonine-protein kinase B-raf
UniProt Gene Name	BRAF
UniProt Synonym Gene Names	BRAF1; RAFB1

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://www.aaabiotech.com/polyclonal/braf-antibody-immunohistochemistry-western-blot-elisa/326869>