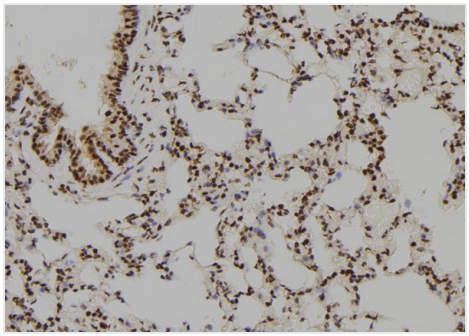
B-RAF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	B-RAF, Polyclonal Antibody
Full Product Name	B-RAF Antibody
Product Gene Name	anti-B-RAF antibody
Product Synonym Gene Name	BRAF
Product Synonym Names	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; 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
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	B-RAF antibody detects endogenous levels of total B-RAF
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	B Raf peptide (MBS9617321) is used for blocking the activity of B Raf antibody (MBS9601778)
Molecular Weight	Predicted: 85 kDa
3D Structure	ModBase 3D Structure for P15056
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human B-RAF
Subcellular Location	Nucleus. Cytoplasm. Cell Membrane. Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes.
Tissue Specificity	Brain and testis.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-B-RAF antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)

Application Notes for anti-B-RAF antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-B-RAF antibody	Description: B-Raf is a tyrosine kinase-like kinase of the RAF family. 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. 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.
Other Notes	Small volumes of anti-B-RAF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for B-RAF purchase	MBS9601778 is an antibody targeting B-RAF. Also known as B-RAF Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-B-RAF antibody
MBS9601778 at 1/100 staining Rat lung 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B-RAF. It may not necessarily be applicable to this product.

NCBI GI #	33188459
NCBI GeneID	673
NCBI Accession #	NP_004324.2
UniProt Primary Accession #	P15056
UniProt Secondary Accession #	Q13878; Q3MIN6; Q9UDP8; Q9Y6T3; A4D1T4; B6HY61; B6HY62; B6HY63; B6HY64; B6HY65; B6HY66
UniProt Related Accession #	P15056
GenBank Nucleotide #	NM_004333.5

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
UniProt Protein Name	Serine/threonine-protein kinase B-raf
UniProt Synonym Protein Names	Proto-oncogene B-Raf; p94; v-Raf murine sarcoma viral oncogene homolog B1
Protein Family	Progestin and adipoQ receptor family
UniProt Gene Name	BRAF
UniProt Synonym Gene Names	BRAF1; RAFB1
NCBI Protein Information	serine/threonine-protein kinase B-raf
NCBI Summary for B-RAF	This gene encodes a protein belonging to the RAF family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERK signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene, most commonly the V600E mutation, are the most frequently identified cancer-causing mutations in melanoma, and have been identified in various other cancers as well, including non-Hodgkin lymphoma, colorectal cancer, thyroid carcinoma, non-small cell lung carcinoma, hairy cell leukemia and adenocarcinoma of lung. Mutations in this gene are also associated with cardiofaciocutaneous, Noonan, and Costello syndromes, which exhibit overlapping phenotypes. A pseudogene of this gene has been identified on the X chromosome. [provided by RefSeq, Aug 2017]
UniProt Comments for B-RAF	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.
Research Articles on B-RAF	**1.** The present findings suggested that miR9 may suppress the viability ofpapillary thyroid carcinoma (PTC) cells and inhibit tumor growth through directly targeting the expression of BRAF in PTC.
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