BRAF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BRAF, Polyclonal Antibody
Full Product Name	BRAF Rabbit pAb
Product Gene Name	anti-BRAF antibody
Product Synonym Names	NS7; B-raf; BRAF1; RAFB1; B-RAF1
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.09% (W/V) Sodium Azide, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	84kDa
OMIM	114500
3D Structure	ModBase 3D Structure for P15056
Immunogen	This BRAF antibody is generated from rabbits immunized with BRAF recombinant protein.
Cellular Localization	Cell Membrane, Cytoplasm, Membrane, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-BRAF antibody	Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-BRAF antibody	WB: 1:1000 FC/FACS: 1:10-50
Related Product Information for anti-BRAF antibody	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.
Other Notes	Small volumes of anti-BRAF 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 BRAF purchase	MBS8558870 is an antibody targeting BRAF. Also known as BRAF Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BRAF. 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 Related Accession #	P15056
GenBank Nucleotide #	NP_004324.2
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	High-affinity branched-chain amino acid transport ATP-binding protein
UniProt Gene Name	BRAF
UniProt Synonym Gene Names	BRAF1; RAFB1
UniProt Entry Name	BRAF_HUMAN
NCBI Protein Information	serine/threonine-protein kinase B-raf
NCBI Summary for BRAF	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 BRAF	BRAF: 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. Frequently mutated in thyroid cancers, skin melanomas and at lower frequency in a wide range of human cancers. An activating mutation, mimicking phosphorylation of the activation loop, is seen in 60% of malignant melanoma samples. Raf mutations are generally exclusive to Ras activating mutations. Activating mutations are also seen in ~10% of colorectal cancers, in lung cancers and gliomas, and at a lower rate in several other tumors. Inactivating mutations are also seen and may result in activation of c-Raf and Erk. Mutations in B-Raf, MEK1 and MEK2 also associated with cardiofaciocutaneous syndrome, displaying morphological, cardiac and mental defects. Approved Inhibitor: Nexavar/Sorafenib. Protein type: Protein kinase, TKL; Kinase, protein; Oncoprotein; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.1; TKL group; RAF family Chromosomal Location of Human Ortholog: 7q34 Cellular Component: neuron projection; mitochondrion; plasma membrane; cytosol; nucleus Molecular Function: small GTPase binding; identical protein binding; protein serine/threonine kinase activity; protein binding; MAP kinase kinase kinase activity; mitogen-activated protein kinase kinase binding; protein heterodimerization activity; calcium ion binding; ATP binding; protein kinase activity Biological Process: response to peptide hormone stimulus; positive T cell selection; response to cAMP; fibroblast growth factor receptor signaling pathway; CD4-positive, alpha beta T cell differentiation; nerve growth factor receptor signaling pathway; activation of MAPKK activity; protein heterooligomerization; somatic stem cell maintenance; MAPKKK cascade; protein amino acid phosphorylation; positive regulation of peptidyl-serine phosphorylation; regulation of cell proliferation; synaptic transmission; organ morphogenesis; myeloid progenitor cell differentiation; small GTPase mediated signal transduction; positive regulation of stress fiber formation; visual learning; negative regulation of neuron apoptosis; negative regulation of apoptosis Disease: Noonan Syndrome 1; Noonan Syndrome 7; Lung Cancer; Leopard Syndrome 3; Cardiofaciocutaneous Syndrome 1
Research Articles on BRAF	**1.** Loss of SATB2 expression is commonly seen in colorectal carcinoma with MMR protein deficiency and BRAF mutation.
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