BRAF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BRAF, Polyclonal Antibody
Full Product Name	BRAF (S601) (Serine/Threonine-protein Kinase B-raf, Proto-oncogene B-Raf, p94, v-Raf Murine Sarcoma Viral Oncogene Homolog B1, BRAF1, RAFB1) (MaxLight 405)
Product Gene Name	anti-BRAF antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human BRAF.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	84,437 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (140433812..140624564, complement). Location: 7q34
OMIM	114500
3D Structure	ModBase 3D Structure for P15056
Immunogen	Synthetic non-phosphopeptide corresponding to amino acid residues surrounding S601 of human BRAF (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-BRAF antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-BRAF antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-BRAF antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-BRAF antibody	MBS6465868 is an antibody targeting BRAF. Also known as BRAF (S601) (Serine/Threonine-protein Kinase B-raf, Proto-oncogene B-Raf, p94, v-Raf Murine Sarcoma Viral Oncogene Homolog B1, BRAF1, RAFB1) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-BRAF antibody	1. Hingorani, S.R., et al., Cancer Res. 63(17):5198-5202 (2003). 2. Lee, J.W., et al., Br. J. Cancer 89(10):1958-1960 (2003). 3. Davies, H., et al., Nature 417(6892):949-954 (2002). 4. Naoki, K., et al., Cancer Res. 62(23):7001-7003 (2002). 5. Stephens, R.M., et al., Mol. Cell. Biol. 12(9):3733-3742 (1992).

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.

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 Secondary Accession #	Q13878; Q3MIN6; Q9UDP8; Q9Y6T3; A4D1T4; B6HY61; B6HY62; B6HY63; B6HY64; B6HY65; B6HY66
UniProt Related Accession #	P15056
GenBank Nucleotide #	NM_004333.4
NCBI Official Full Name	serine/threonine-protein kinase B-raf
NCBI Official Synonym Full Names	v-raf murine sarcoma viral oncogene homolog B1
NCBI Official Symbol	BRAF
NCBI Official Synonym Symbols	NS7; 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; 94 kDa B-raf protein; proto-oncogene B-Raf; murine sarcoma viral (v-raf) oncogene homolog B1; B-Raf proto-oncogene serine/threonine-protein kinase (p94)
NCBI Summary for BRAF	This gene encodes a protein belonging to the raf/mil family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. Mutations in this gene have also been associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung. A pseudogene, which is located on chromosome X, has been identified for this gene. [provided by RefSeq, Jul 2008]

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.** The novel melanoma cell lines were compared to metastatic cell lines (HBL, LND1), wild type (wt) for MC1R and BRAF genes.
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