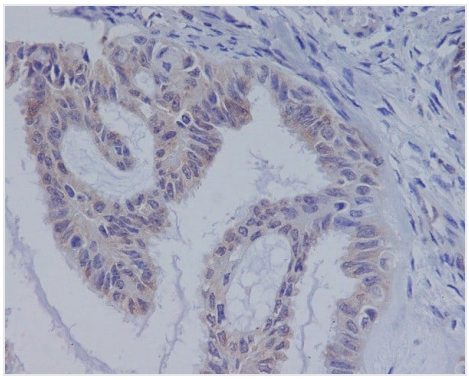
B Raf (BRAF) Antibody – Rabbit Monoclonal

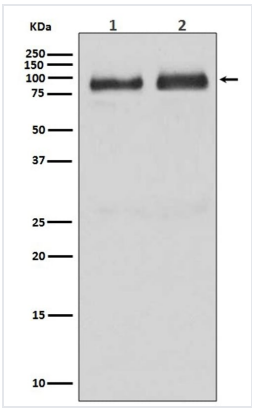
PRODUCT OVERVIEW

Product Name	B Raf (BRAF), Monoclonal Antibody
Full Product Name	Anti-B Raf Rabbit Monoclonal Antibody
Product Gene Name	anti-BRAF antibody
Product Synonym Names	Serine/threonine-protein kinase B-raf; 2.7.11.1; Proto-oncogene B-Raf; p94; v-Raf murine sarcoma viral oncogene homolog B1; BRAF; BRAF1; RAFB1
Clonality	Monoclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid
Purity/Purification	Affinity-chromatography
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	84437 MW
OMIM	M95712 mRNA
3D Structure	ModBase 3D Structure for P15056
Immunogen	A synthesized peptide derived from human B Raf
Subcellular Localization	Nucleus. Cytoplasm. Cell membrane. Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes.
Tissue Specificity	Brain and testis.
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-BRAF antibody	Flow Cytometry (FC/FACS), Immunoprecipitation (IP), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-BRAF antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IP: 1:50 FC/FACS: 1:50
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	MBS179079 is an antibody targeting BRAF. Also known as Anti-B Raf Rabbit Monoclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-BRAF antibody

Immunohistochemical analysis of paraffin-embedded human ovarian cancer, using B Raf Antibody(MBS179079)BRAF was detected in paraffin-embedded tissue section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-BRAF Antibody (MBS179079)overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



Western Blot (WB) of anti-BRAF antibody

Western blot analysis of B Raf expression in (1)Human brain lysate (2)HepG2 cell lysate (MBS179079).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-BRAF monoclonal antibody overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for BRAF

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_004333.5
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	High-affinity branched-chain amino acid transport ATP-binding protein
UniProt Gene Name	BRAF
UniProt Synonym Gene Names	BRAF1; RAFB1
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]
Research Articles on BRAF	**1.** The results establish a link between BRAF(V600E) and NOX4, which is confirmed by a comparative analysis of NOX4 expression in human (TCGA) and mouse thyroid cancers.
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