

BRAF Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5325

Specification

BRAF Antibody - Product Information

Application	WB, FC,E
Primary Accession	P15056
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=84 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

BRAF Antibody - Additional Information

Gene ID 673

Antigen Region
4-385

Other Names

BRAF; BRAF1; RAFB1; Serine/threonine-protein kinase B-raf; Proto-oncogene B-Raf; p94; v-Raf murine sarcoma viral oncogene homolog B1

Dilution

WB~~1:1000
FC~~1:10~50

Target/Specificity

This BRAF antibody is generated from rabbits immunized with BRAF recombinant protein.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BRAF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

BRAF Antibody - Protein Information

Name BRAF ([HGNC:1097](#))

Synonyms BRAF1, RAFB1

Function

Protein kinase involved in the transduction of mitogenic signals from the cell membrane to the nucleus (Probable). Phosphorylates MAP2K1, and thereby activates the MAP kinase signal transduction pathway (PubMed:21441910, PubMed:29433126). Phosphorylates PFKFB2 (PubMed:36402789). May play a role in the postsynaptic responses of hippocampal neurons (PubMed:1508179).

Cellular Location

Nucleus. Cytoplasm. Cell membrane. Note=Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes.

Tissue Location

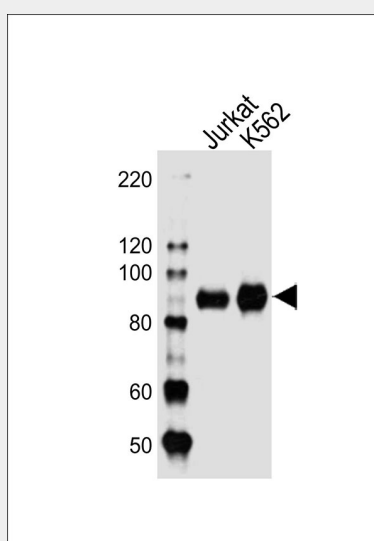
Brain and testis.

BRAF Antibody - Protocols

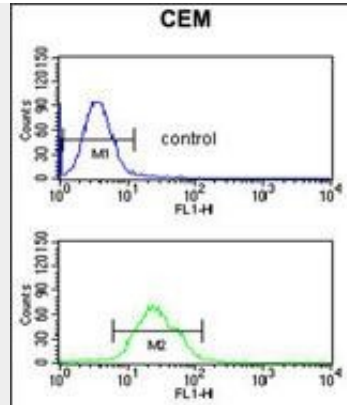
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BRAF Antibody - Images



Western blot analysis of lysates from Jurkat, K562 cell line (from left to right), using BRAF Antibody (Cat. #AW5325). AW5325 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.



BRAF Antibody (Cat. #AW5325) flow cytometric analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

BRAF Antibody - Background

BRAF, a member of the RAF subfamily of Ser/Thr protein kinases, is involved in the transduction of mitogenic signals from the cell membrane to the nucleus. It may play a role in the postsynaptic responses of hippocampal neurons. This cytoplasmic protein is expressed in brain and testis. Defects in BRAF are involved in a wide range of cancers including lung cancer and non-Hodgkin lymphoma (NHL). This protein contains 1 zinc-dependent phorbol-ester and DAG binding domain.

BRAF Antibody - References

- Hingorani, S.R., et al., *Cancer Res.* 63(17):5198-5202 (2003).
- Lee, J.W., et al., *Br. J. Cancer* 89(10):1958-1960 (2003).
- Davies, H., et al., *Nature* 417(6892):949-954 (2002).
- Naoki, K., et al., *Cancer Res.* 62(23):7001-7003 (2002).
- Stephens, R.M., et al., *Mol. Cell. Biol.* 12(9):3733-3742 (1992).