

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

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**BRAF Antibody - Product Information**

Application	<b>WB, FC,E</b>
Primary Accession	<a href="#">P15056</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>H=84 KDa</b>
Isotype	<b>Rabbit IgG</b>
Antigen Source	<b>HUMAN</b>

**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:<a href="http://www.uniprot.org/citations/21441910" target="\_blank">21441910</a>, PubMed:<a href="http://www.uniprot.org/citations/29433126" target="\_blank">29433126</a>). Phosphorylates PFKFB2 (PubMed:<a href="http://www.uniprot.org/citations/36402789" target="\_blank">36402789</a>). May play a role in the postsynaptic responses of hippocampal neurons (PubMed:<a href="http://www.uniprot.org/citations/1508179" target="\_blank">1508179</a>).

### Cellular Location

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

### Tissue Location

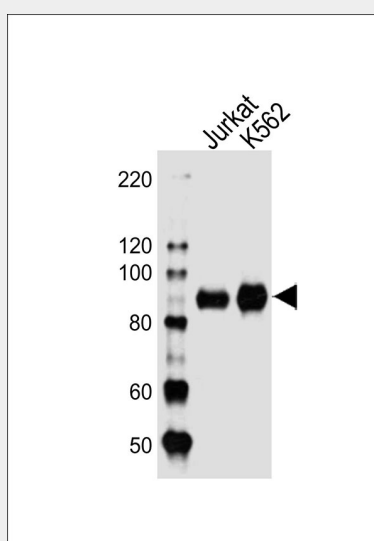
Brain and testis.

## BRAF Antibody - Protocols

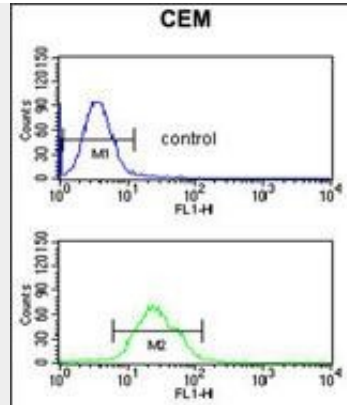
Provided below are standard protocols that you may find useful for product applications.

- [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).