

**B-RAF Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7810C****Specification**

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**B-RAF Antibody (Center) - Product Information**

Application	WB, IF, IHC-P, FC,E
Primary Accession	<a href="#">P15056</a>
Other Accession	<a href="#">P28028</a> , <a href="#">Q04982</a>
Reactivity	Human
Predicted	Chicken, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	84437
Antigen Region	424-453

**B-RAF Antibody (Center) - Additional Information****Gene ID** 673**Other Names**

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

**Target/Specificity**

This B-RAF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 424-453 amino acids from the Central region of human B-RAF.

**Dilution**

WB~~1:1000  
IF~~1:10~50  
IHC-P~~1:10~50  
FC~~1:10~50  
E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

B-RAF Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**B-RAF Antibody (Center) - 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**

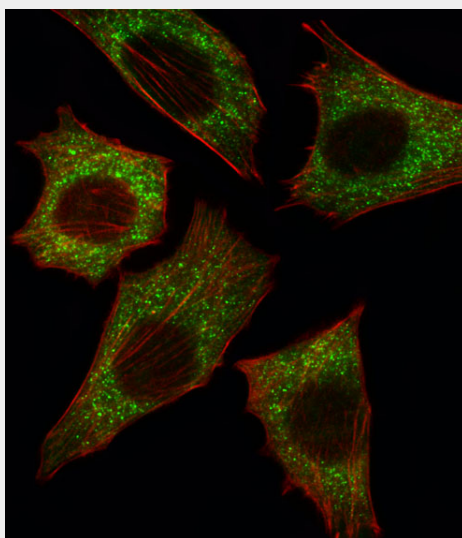
Brain and testis.

**B-RAF Antibody (Center) - Protocols**

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

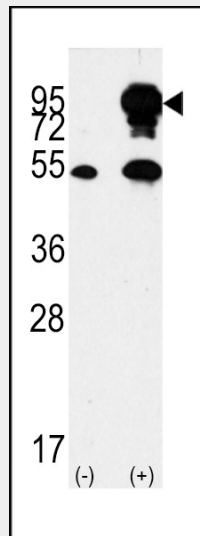
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**B-RAF Antibody (Center) - Images**

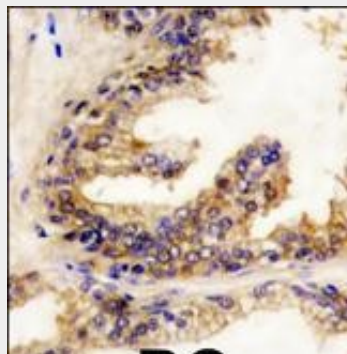


Fluorescent image of C2C12 cell stained with BRAF Antibody (Center)(Cat#AP7810c).C2C12 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with BRAF primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C).Cytoplasmic

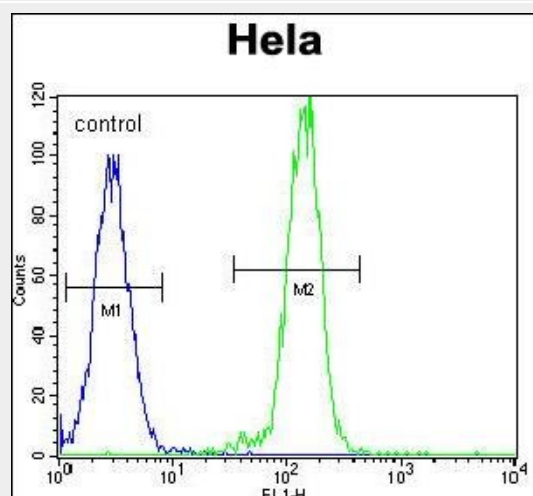
actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C).BRAF immunoreactivity is localized to Cytoplasm significantly.



Western blot analysis of BRAF Antibody (Center) polyclonal antibody(Cat.#AP7810c)(arrow). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the BRAF gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human prostate carcinoma reacted with BRAF Antibody (Center)(Cat.#AP7810c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



B-RAF Antibody (Center) (Cat. #AP7810c) flow cytometric analysis of HeLa cells (right histogram)

compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **B-RAF Antibody (Center) - 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 neuron. 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.

#### **B-RAF Antibody (Center) - References**

- Loewe, R., et al., J. Invest. Dermatol. 123(4):733-736 (2004).  
Yamaguchi, T., et al., J. Biol. Chem. 279(39):40419-40430 (2004).  
Frattoni, M., et al., Oncogene 23(44):7436-7440 (2004).  
Tsavachidou, D., et al., Cancer Res. 64(16):5556-5559 (2004).  
Gear, H., et al., Invest. Ophthalmol. Vis. Sci. 45(8):2484-2488 (2004).