

**Phospho-BRAF(S445) Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3418a**

**Specification**

---

**Phospho-BRAF(S445) Antibody - Product Information**

Application	DB,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

**Phospho-BRAF(S445) Antibody - 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 BRAF Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S445 of human BRAF.

**Dilution**

DB~~1:500

**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**

Phospho-BRAF(S445) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Phospho-BRAF(S445) 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**

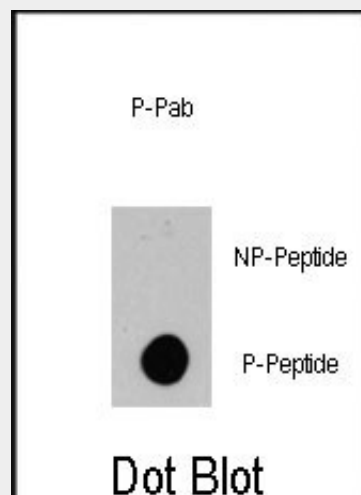
Brain and testis.

**Phospho-BRAF(S445) 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](#)

**Phospho-BRAF(S445) Antibody - Images**



Dot blot analysis of anti-BRAF-pS445 Phospho-specific Pab (Cat.#AP3418a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

**Phospho-BRAF(S445) Antibody - Background**

BRAF 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. Defects in BRAF are a cause of cardiofaciocutaneous syndrome (CFC syndrome), and a wide range of cancers such as lung cancer, non-Hodgkins lymphoma, and colorectal cancer.

**Phospho-BRAF(S445) Antibody - 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).  
Frattini, 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).

**Phospho-BRAF(S445) Antibody - Citations**

- [A critical analysis of neuro-oncology clinical trials](#)