

Phospho-BRAF(S445) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3418a**Specification**

Phospho-BRAF(S445) Antibody Blocking peptide - Product InformationPrimary Accession [P15056](#)**Phospho-BRAF(S445) Antibody Blocking peptide - 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

The synthetic peptide sequence used to generate the antibody [AP3418a](/products/AP3418a) was selected from the region of human Phospho-BRAF-pS445. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-BRAF(S445) Antibody Blocking peptide - 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](http://www.uniprot.org/citations/21441910), PubMed: [29433126](http://www.uniprot.org/citations/29433126)). Phosphorylates PFKFB2 (PubMed: [36402789](http://www.uniprot.org/citations/36402789)). May play a role in the postsynaptic responses of hippocampal neurons (PubMed: [1508179](http://www.uniprot.org/citations/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 Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-BRAF(S445) Antibody Blocking peptide - Images**Phospho-BRAF(S445) Antibody Blocking peptide - 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 Blocking peptide - 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).