

B-RAF Antibody (S445) Blocking peptide
Synthetic peptide
Catalog # BP7810f**Specification**

B-RAF Antibody (S445) Blocking peptide - Product InformationPrimary Accession [P15056](#)**B-RAF Antibody (S445) 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 [AP7810f](/product/products/AP7810f) was selected from the S445 region of human BRAF. 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.

B-RAF Antibody (S445) 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.

B-RAF Antibody (S445) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

B-RAF Antibody (S445) Blocking peptide - Images**B-RAF Antibody (S445) Blocking peptide - 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.

B-RAF Antibody (S445) Blocking peptide - 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).