

# Phospho-BRAF(S445) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3418a

## Product Information

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<b>Application</b>	DB, E
<b>Primary Accession</b>	<a href="#">P15056</a>
<b>Other Accession</b>	<a href="#">P28028</a> , <a href="#">Q04982</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Chicken, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB11473
<b>Calculated MW</b>	84437

## Additional Information

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<b>Gene ID</b>	673
<b>Other Names</b>	Serine/threonine-protein kinase B-raf, Proto-oncogene B-Raf, p94, v-Raf murine sarcoma viral oncogene homolog B1, BRAF, BRAF1, RAFB1
<b>Target/Specificity</b>	This BRAF Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S445 of human BRAF.
<b>Dilution</b>	DB~~1:500 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	Phospho-BRAF(S445) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	BRAF ( <a href="#">HGNC:1097</a> )
<b>Synonyms</b>	BRAF1, RAFB1
<b>Function</b>	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](#)).

<b>Cellular Location</b>	Nucleus. Cytoplasm. Cell membrane. Note=Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes.
<b>Tissue Location</b>	Brain and testis.

## Background

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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.

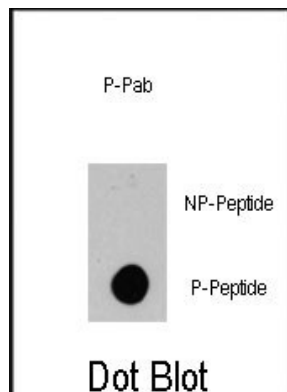
## References

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## Images

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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.