

# B-RAF Antibody (S601)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7810j

#### **Product Information**

**Application** IHC-P, WB, E **Primary Accession** P15056

Other Accession P28028, 004982

Reactivity Human

**Predicted** Mouse, Chicken

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB10945
Calculated MW 84437
Antigen Region 580-609

## **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 580-609 amino acids from human

B-RAF.

**Dilution** IHC-P~~1:100~500 WB~~ 1:500 E~~Use at an assay dependent concentration.

**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** B-RAF Antibody (S601) is for research use only and not for use in diagnostic or

therapeutic procedures.

#### **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:<u>21441910</u>, PubMed:<u>29433126</u>). Phosphorylates PFKFB2 (PubMed:<u>36402789</u>). 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.

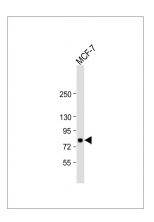
# **Background**

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.

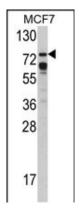
## References

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).

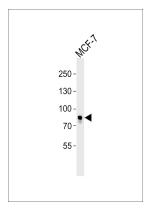
# **Images**



Anti-BRAF Antibody (S601) at 1:1000 dilution + MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 84 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of BRAF-pS601 (Cat. #AP7810j) in MCF7 cell line lysates (35ug/lane). BRAF (arrow) was detected using the purified Pab.



Western blot analysis of lysates from MCF-7 cell line, using B-RAF Antibody (S602)( AP7810J). AP7810J was diluted at 1:500. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug.



Formalin-fixed and paraffin-embedded human brain tissue reacted with BRAF Antibody (S601) (Cat.#AP7810j), 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.

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