



Product Specification Sheet

B-raf antibody

□ Cat# BRAF11-A

Rabbit Anti-Mouse B-raf antibody

SIZE: 100 µg

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. BRAF is composed of three conserved domains characteristic of the Raf kinase family: conserved region 1 (CR1), a Ras-GTP-binding self-regulatory domain, conserved region 2 (CR2), a serine-rich hinge region, and conserved region 3 (CR3), a catalytic protein kinase domain that phosphorylates a consensus sequence on protein substrates. Mutations in BRAF are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. 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.

Source of Antigen and Antibodies

Uniprot: P28028

Host: Rabbit

Clonality: Polyclonal

Immunogen: 17 amino acid synthetic peptide from within region 700-750 derived from Mouse B-raf

Purification: Ammonium sulfate followed by peptide affinity purification

Species Reactivity: Mouse

Cross reactivity: The peptide used as an immunogen exhibits 100% homology with Rat, Human, Cat, Dog, Bovine, Horse, Pig, Non-Human Primates, Goat, Sheep, and more species not listed. If your species of interest is not listed above, contact ADI to check for sequence homology. Reactivity has only been confirmed in Mouse and Human samples.

Alternative names: Serine/threonine- protein kinase B-raf. Proto-oncogene B-raf

Subcellular Location: Nucleus, Cell membrane, and Cytoplasm.

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (ADI cat#20320)

Form & Storage of Antibodies

□ **Affinity pure IgG Solution**

Concentration: 0.5 mg/ml Volume: 200 µl

Supplied in PBS, pH 7.4

The antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

□ **Lyophilized powder**

Lyophilized from a formulation containing PBS, pH 7.4 +3% Trehalose. Reconstitute in 200 µl PBS, 0.05% tween-20, 0.1% BSA, and a preservative to 0.5 mg/ml.

Storage:

Short-term: 4°C for 1-3 months

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions. Glycerol may be added to a final concentration of 50% and antibodies can be stored un-aliquoted at -20°C.

Recommended Usage

Western Blotting: 0.5-1.0 µg/ml

Observed band size: ~88-96 kDa

Note: Endogenous expression of B-raf is extremely low and will typically be below the detection limit of Western blotting

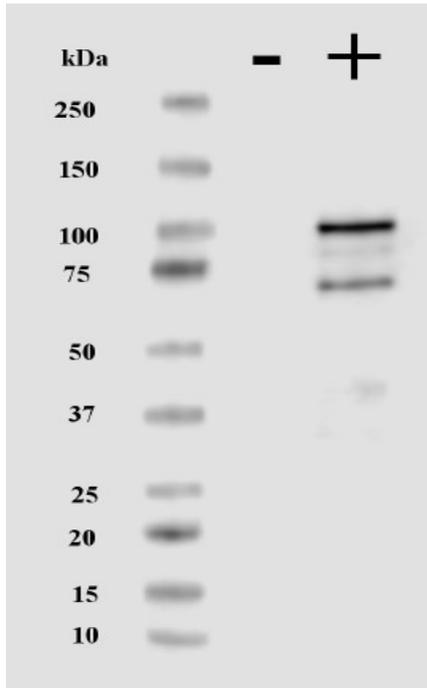
IHC-P: 1-10 µg/ml. QC tested using 10 mM sodium citrate, pH 6 antigen retrieval buffer. The antibody may work better with no retrieval or alternative retrieval solutions.

The above concentrations are a *suggestion*, user's must optimize their assay based on their own conditions. The antibody may work in other applications such as Immunocytochemistry or IP. These methods have not been tested by ADI.

**This product is for In vitro research use only.*

Related materials available from ADI

Catalog#	Description
HIL-004-105	Human IL-4 ELISA Kit, 96 tests, Quantitative
MIL-004-110	Mouse IL-4 ELISA Kit, 96 tests, Quantitative
MAPK1-A	Rabbit Anti-Human MAPK1/ERK-2 antibody
MAPK1-C	Recombinant MAPK1 control for Western blotting
NIVE2B-A	Rabbit Anti Ephrin-B2 (Nipah/Hendra receptor) antibody
PDCD1-A	Rabbit Anti-Human Programmed cell death protein 1 (PDCD1) antibody
BRAF11-A	190731IA



Western blotting: 10 μ g of transfected (+) and empty vector control (-) of HEK293 overexpressed B-raf cell lysates were heated for 5 minutes at 95°C then electrophoretically separated on a 4-20% SDS-PAGE gel. The gel was run at 100V for ~1 hour and 30 minutes then transferred to a 0.2 μ m nitrocellulose membrane using the 'Mixed MW' settings on a Transblot Turbo (Biorad). The blot was blocked for 1 hour at room temperature with 1% Casein. **BRAF11-A** was diluted with TBST+0.1% BSA to 1 μ g/ml and incubated overnight at 4°C. The blot was washed with TBS-T 3 times for 5 minutes each. Goat anti-rabbit IgG HRP (**ADI cat#20320**) was diluted in TBST+0.1% BSA at a 1:1,000 dilution (500 ng/ml) then incubated for 1 hour at room temperature. The blot was washed 3 times with TBS-T for 5 minutes each. The blot was then incubated with regular strength ECL substrate for 1 minute and imaged on a CCD imaging system (C-DiGit, LI-COR).