Product datasheet

Anti-BRAF Antibody

Catalog Number: *PB0103*

BOSTER
antibody and ELISA experts
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Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,
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Basic Information

Product Name	Anti-BRAF Antibody
Gene Name	BRAF
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human B Raf recombinant protein (Position: A38-V230). Human B Raf shares 81% amino acid (aa) sequence identity with mouse B Raf.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	85 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

BRAF (v-raf murine sarcoma viral oncogene homolog B1) is a human gene that makes a protein called B-Raf. It is a member of the Raf kinase family of growth signal transduction protein kinases. This protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. It is mapped to 7q34. Mutations in this gene are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. The BRAF protein is also involved in sending signals inside cells, which are involved in directing cell growth.

Selected Validation Data

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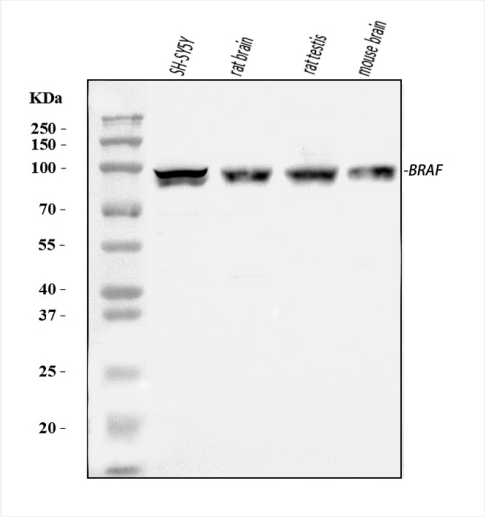

Figure 1. Western blot analysis of B Raf using anti-B Raf antibody (PB0103). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
lane 1: SH-SY5Y whole cell lysate
lane 2: rat brain tissue lysate,
lane 3: rat testis tissue lysate,
lane 4: mouse brain tissue lysate.
Use rabbit anti- BRAF 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for B Raf at approximately 85KD. The expected band size for B Raf is at 84KD.

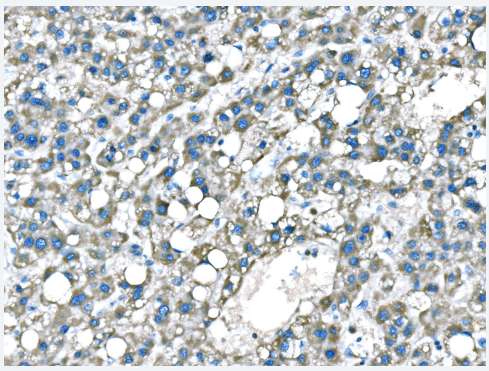

Figure 2. IHC analysis of anti-B Raf antibody (PB0103). B Raf was detected in paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

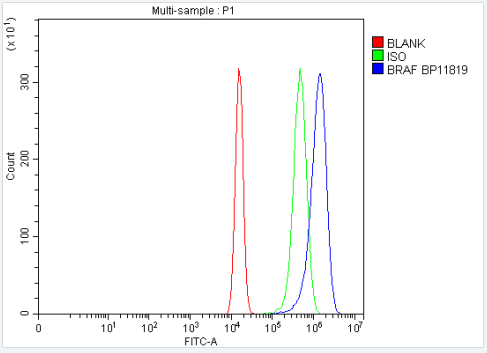

Figure 8. Flow Cytometry analysis of U2OS cells using anti-BRAF antibody (PB0103).
Overlay histogram showing U2OS cells stained with PB0103 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BRAF Antibody (PB0103) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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