

Basic Information

Product Name	Anti-BRAF Antibody
Gene Name	BRAF
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg 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	85KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Flow cytometry (FCM): 1-3μg/1x10 ⁶ cells (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°C as supplied. 6 months 2 to 8°C 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

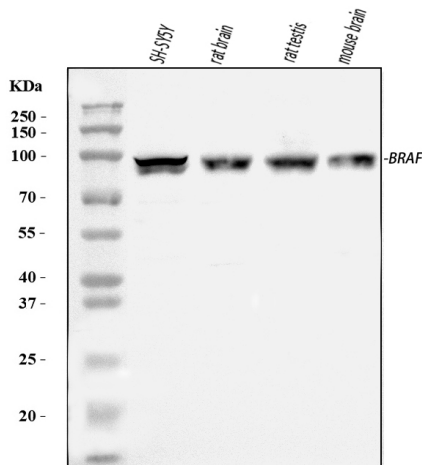


Figure 1. Western blot analysis of B Raf using anti-B Raf antibody (PB0103). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

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.

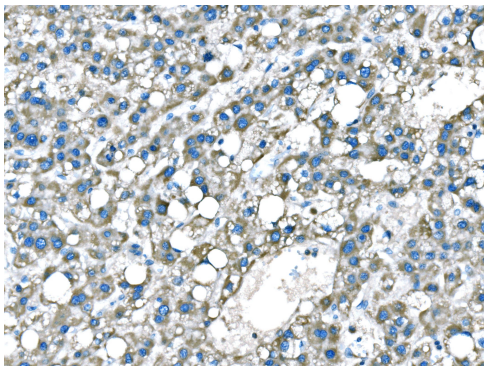


Figure 2. IHC analysis of anti-B Raf antibody (PB0103). B Raf was detected in paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as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

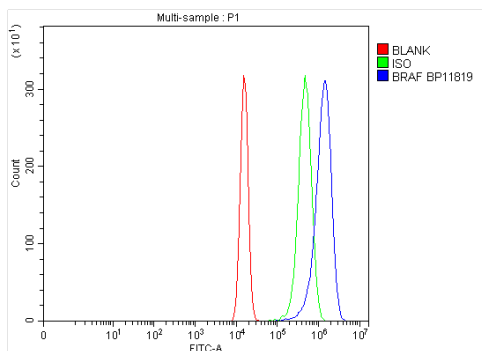


Figure 8. Flow cytometry analysis of U2OS cell(1x10⁶) DyLight 488 conjugated goat anti-mouse IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was mouse IgG DyLight 488. Unlabelled sample (Red line).