

## Anti-BRAF Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

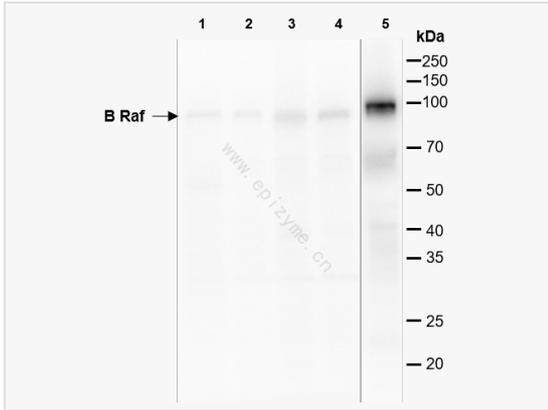
Catalog # R013818

### Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Rat, Human, Mouse
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	29M71E67
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human BRAF
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-BRAF Rabbit mAb [29M71E67] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	FLJ95109, 94 kDa B raf protein, B raf 1, B raf, B Raf proto oncogene serine threonine protein kinase, B Raf proto oncogene, serine/threonine kinase, B RAF1, B-Raf proto-oncogene serine/threonine-protein kinase (p94), BRAF 1, BRAF, BRAF_HUMAN, BRAF1, cRmil, MGC126806, MGC138284, Murine sarcoma viral (v-raf) oncogene homolog B1, Murine sarcoma viral v raf oncogene homolog B1, NS7, Oncogen BRAF, oncogene BRAF1, p94, Proto-oncogene B-Raf, Proto-oncogene c-Rmil, Raf, RAFB 1, RAFB1, RMIL, Serine/threonine-protein kinase B-raf, v raf murine sarcoma viral oncogene homolog B, v raf murine sarcoma viral oncogene homolog B1, v-Raf murine sarcoma viral oncogene homolog B1.
Calculated MW	Calculated MW: 84 kDa; Observed MW: 84 kDa
Uniprot ID	P15056
Gene ID	673
Background	This gene encodes a protein belonging to the RAF family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERK signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene, most commonly the V600E mutation, are the most frequently identified cancer-causing mutations in melanoma, and have been identified in various other cancers as well, including non-Hodgkin lymphoma, colorectal cancer, thyroid carcinoma, non-small cell lung carcinoma, hairy cell leukemia and adenocarcinoma of lung. Mutations in this gene are also associated with cardiofaciocutaneous, Noonan, and Costello syndromes, which exhibit overlapping phenotypes. A pseudogene of this gene has been identified on the X chromosome. [provided by RefSeq, Aug 2017]
Cellular Location	Nucleus. Cytoplasm. Cell membrane. Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes.



Western Blot - Anti-BRAF Rabbit mAb [29M71E67]

All lanes: R013818 at 1:1,000 dilution

Lane 1: MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 2: MSC (human mesenchymal stem cell) whole cell lysates

Lane 3: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: T24 (human bladder cancer epithelial cell) whole cell lysates

Lane 5: Rat brain whole cell lysates

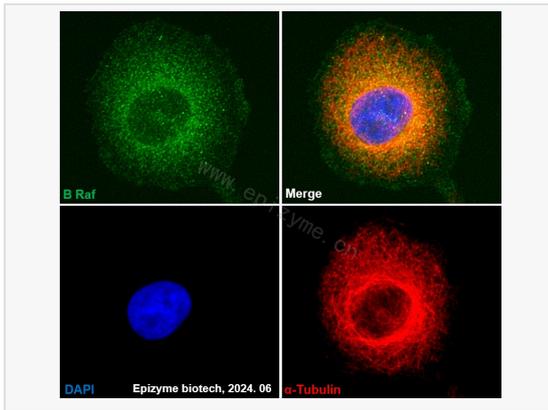
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 84 kDa

Observed band size: 84 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-BRAF Rabbit mAb [29M71E67]

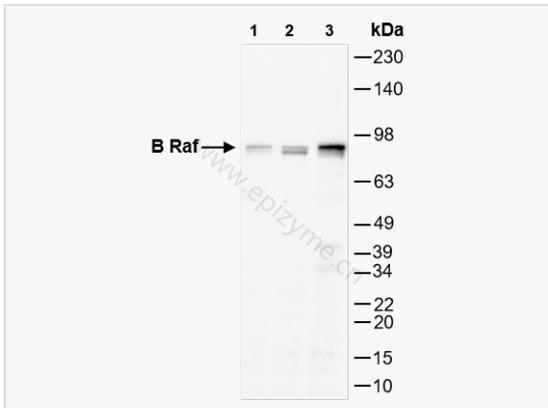
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R013818 at 1:100 dilution and  $\alpha$ -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-BRAF Rabbit mAb [29M71E67]

All lanes: R013818 at 1:1,000 dilution

Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 3: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 84 kDa

Observed band size: 84 kDa

Developed using the ECL technique (Cat. No. SQ201).