

Anti-BRAF Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

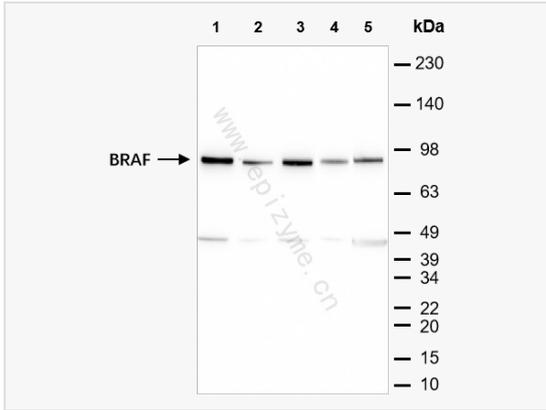
Catalog # M014281

Product Information

Application	ELISA, IHC-P/IF (Tissue-P), WB, IF (Cell)/ICC
Reactivity	Rat, Mouse (Cell), Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	46I88A93
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of 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 Mouse mAb [46I88A93] 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: 87 kDa
Uniprot ID	P15056
Gene ID	673
Background	This gene encodes a protein belonging to the raf/mil family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. Mutations in this gene have also been associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung. A pseudogene, which is located on chromosome X, has been identified for this gene.
Cellular Location	Nucleus. Cytoplasm. Cell membrane. Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes.
Tissue Location	Brain and testis.



Western Blot - Anti-BRAF Mouse mAb [46I88A93]

All lanes: M014281 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial 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 spleen whole tissue lysates

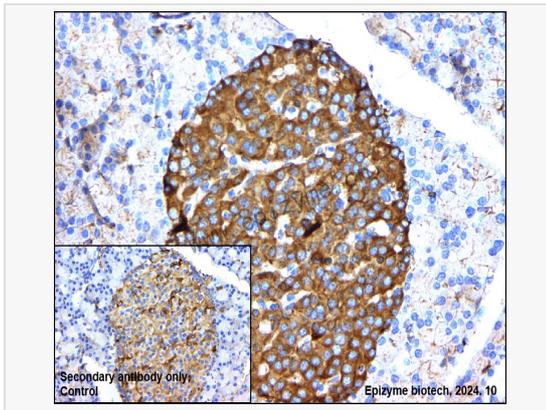
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 84 kDa

Observed band size: 87 kDa

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



Immunohistochemistry - Anti-BRAF Mouse mAb [46I88A93]

Sample: Paraformaldehyde-fixed, paraffin embedded rat pancreas tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M014281 at 1:200 dilution

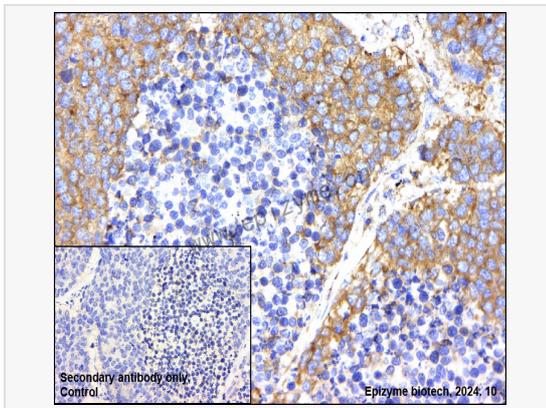
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-BRAF Mouse mAb [46I88A93]

Sample: Paraformaldehyde-fixed, paraffin embedded human lung cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M014281 at 1:200 dilution

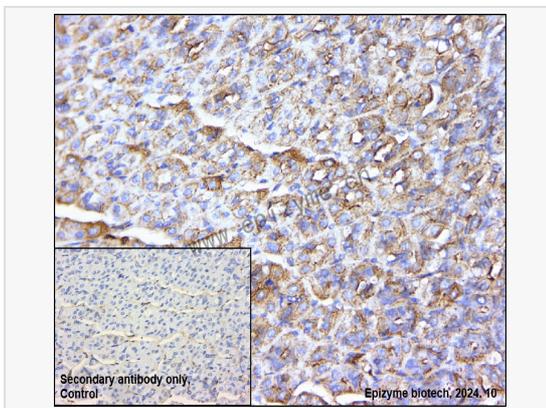
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-BRAF Mouse mAb [46I88A93]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse stomach tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M014281 at 1:200 dilution

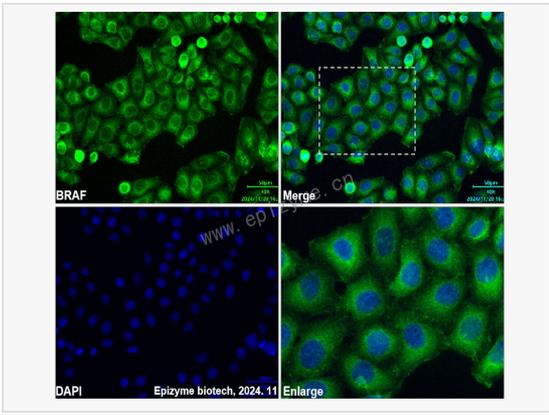
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-BRAF Mouse mAb [46I88A93]

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: M014281 at 1:100 dilution

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

Nuclei were stained with DAPI (shown in blue).