# Anti-Phospho-BRAF (Thr401) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014917

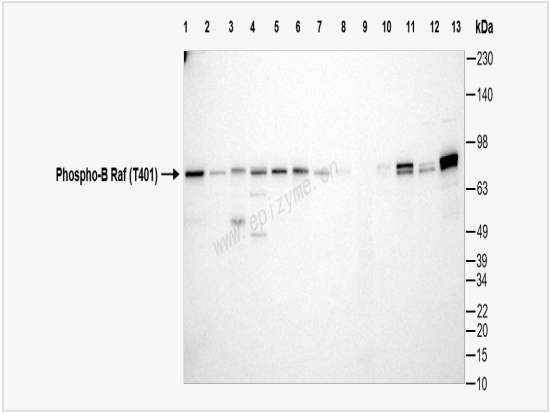
## Product Information

| | |
|---|---|
| Application | WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA |
| Reactivity | Mouse, Rat, Human |
| Dilution | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 71S23B36 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human Phospho-B Raf (T401) |
| 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-Phospho-BRAF (Thr401) Rabbit mAb [71S23B36] is for research use only and not for use in diagnostic or therapeutic procedures. |

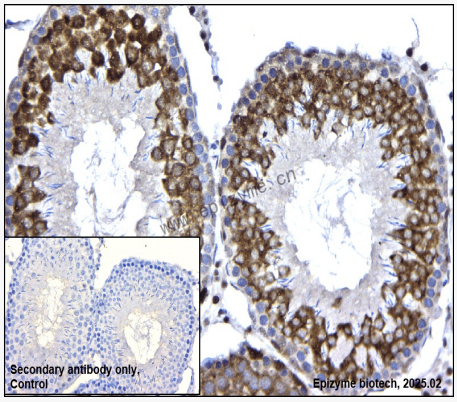
## Protein Information

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|---|---|
| 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: 85 kDa; Observed MW: 85 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. |

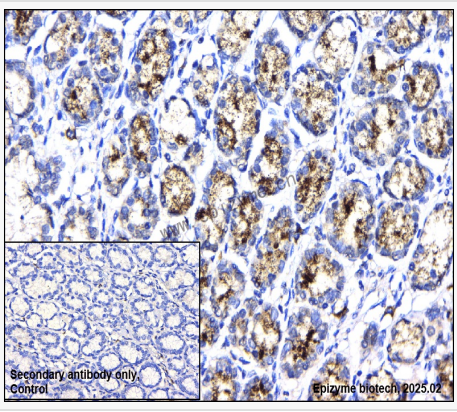
## Validation Images



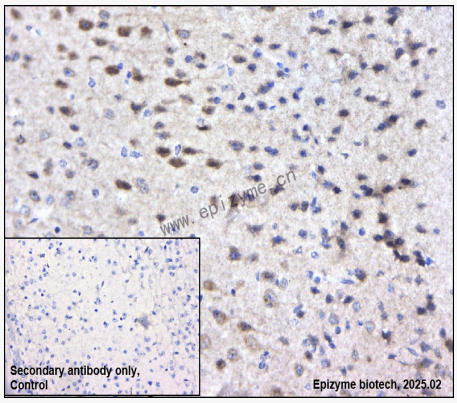

Western Blot - Anti-Phospho-BRAF (Thr401) Rabbit mAb [71S23B36]
All lanes: R014917 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 6: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 7: 293T (Human embryonic kidney cell) whole cell lysates
Lane 8: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 9: Mouse heart whole tissue lysates
Lane 10: Mouse brain whole tissue lysates
Lane 11: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 12: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 13: 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: 85 kDa
Observed band size: 85 kDa
Developed using the ECL technique (Cat. No. SQ201).



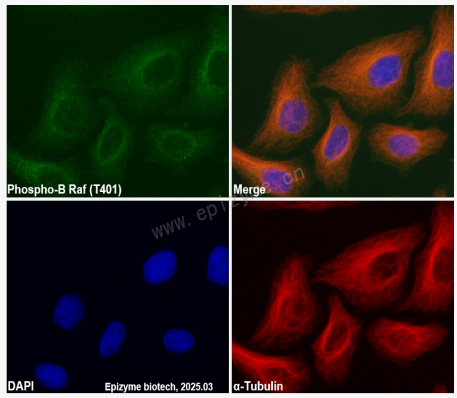

Immunohistochemistry - Anti-Phospho-BRAF (Thr401) Rabbit mAb [71S23B36]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014917 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (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-Phospho-BRAF (Thr401) Rabbit mAb [71S23B36]
Sample: Paraformaldehyde-fixed, paraffin embedded human gastric cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014917 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit 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-Phospho-BRAF (Thr401) Rabbit mAb [71S23B36]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014917 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit 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-Phospho-BRAF (Thr401) Rabbit mAb [71S23B36]
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: R014917 at 1:100 dilution and α-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).