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Anti-B Raf Antibody
Catalog # ABO11156

Specification

Anti-B Raf Antibody - Product Information

Application	**WB**
Primary Accession	P15056
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Serine/threonine-protein kinase B-raf(BRAF) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-B Raf Antibody - Additional Information

Gene ID 673

Other Names
Serine/threonine-protein kinase B-raf, 2.7.11.1, Proto-oncogene B-Raf, p94, v-Raf murine sarcoma viral oncogene homolog B1, BRAF, BRAF1, RAFB1

Calculated MW
84437 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization
Nucleus . Cytoplasm. Cell membrane . Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes. .

Tissue Specificity
Brain and testis.

Protein Name
Serine/threonine-protein kinase B-raf

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human B Raf(344-362aa QPFRPADEDHRNQFGQRDR), identical to the related rat and mouse sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. RAF subfamily.

Anti-B Raf Antibody - Protein Information

Name BRAF (HGNC:1097)

Synonyms BRAF1, RAFB1

Function
Protein kinase involved in the transduction of mitogenic signals from the cell membrane to the nucleus (Probable). Phosphorylates MAP2K1, and thereby activates the MAP kinase signal transduction pathway (PubMed:21441910, PubMed:29433126). Phosphorylates PFKFB2 (PubMed:36402789). May play a role in the postsynaptic responses of hippocampal neurons (PubMed:1508179).

Cellular Location
Nucleus. Cytoplasm. Cell membrane. Note=Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes.

Tissue Location
Brain and testis.

Anti-B Raf Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-B Raf Antibody - Images

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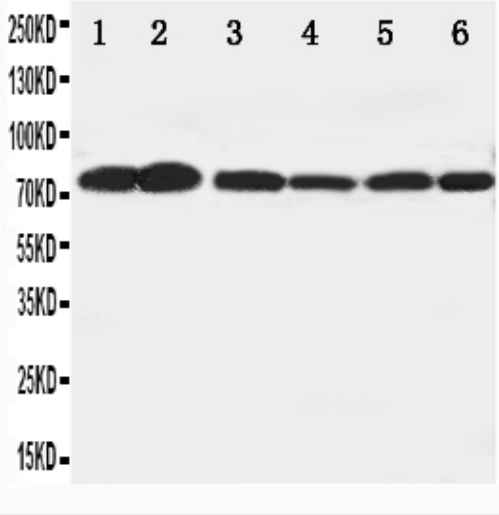

Anti-B Raf antibody, ABO11156, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Testis Tissue LysateLane 3: Rat Liver Tissue LysateLane 4: SW620 Cell LysateLane 5: COLO320 Cell LysateLane 6: PC-12 Cell Lysate

Anti-B Raf Antibody - Background

BRAF(v-raf murine sarcoma viral oncogene homolog B1) is a human gene that makes a protein called B-Raf, also known as ONCOGENE BRAF, BRAF1, RAFB1, Proto-oncogene B-Raf p94, v-Raf murine sarcoma viral oncogene homolog B1, proto-oncogene B-Raf, v-Raf murine sarcoma viral oncogene homolog B1, while the protein is more formally known as serine/threonine-protein kinase B-Raf. BRAF deduced 651-amino acid protein has a calculated molecular mass of 72.5 kD. Northern blot analysis detected transcripts of 10 and 13 kb in cerebrum, fetal brain, and placenta and transcripts of 2.6 and 4.5 kb in testis. Testis also showed lower expression of the 10- and 13-kb transcripts.B-Raf is a member of the Raf kinase family of serine/threonine-specific protein kinases. This protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion.