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# Anti-B Raf Picoband Antibody

Catalog # ABO11860

## Product Information

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| **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. |

## Additional Information

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| **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 |
| **Application Details** | Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat |
| **Subcellular Localization** | Nucleus . Cytoplasm. Cell membrane . Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes. . |
| **Tissue Specificity** | Brain and testis. |
| **Source** | Eukaryota |
| **Protein Name** | Serine/threonine-protein kinase B-raf |
| **Contents** | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. |
| **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. |
| **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. |

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

## Protein Information

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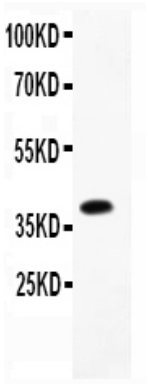
| **Name** | BRAF ( HGNC:1097) |
| **Synonyms** | BRAF1, RAFB1 |
| **Function** | Protein kinase involved in the transduction of mitogenic signals from the cell membrane to the nucleus (Probable). Phosphorylates MAP2K1, and thereby activates the MAP kinase signal transduction pathway (PubMed:21441910, 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. |

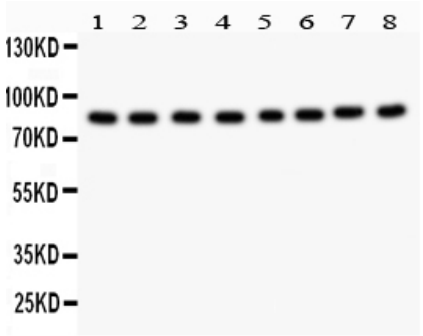
## Background

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.

## Images




All lanes: Anti B Raf (ABO11860) at 0.5ug/mlWB: Recombinant Human B Raf Protein 0.5ngPredicted bind size: 40KDObserved bind size: 40KD




All lanes: Anti B Raf (ABO11860) at 0.5ug/mlLane 1: Rat Testis Tissue at 50ugLane 2: Rat Brain Tissue at 50ugLane 3: Mouse Testis Tissue at 50ugLane 4: Mouse Brain Tissue at 50ugLane 5: Hela Whole Cell Lysate at 40ugLane 6: Jurkat Whole Cell Lysate at 40ugLane 7: MCF-7 Whole Cell Lysate at 40ugLane 8: K562 Whole Cell Lysate at 40ugPredicted bind size: 84KD Observed bind size: 84KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.