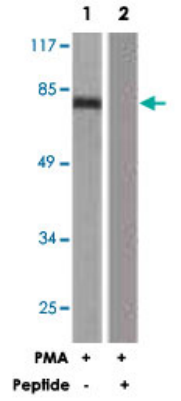
RAF1 polyclonal antibody

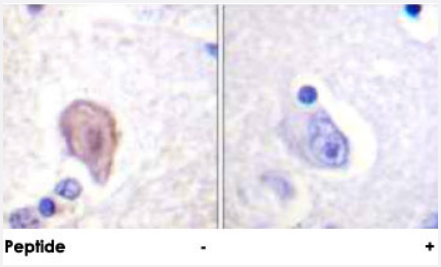
Catalog # PAB18335 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells, treated with PMA (125 ng/mL, 30 mins), using RAF1 polyclonal antibody (Cat # PAB18335).
Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human brain tissue using RAF1 polyclonal antibody (Cat # PAB18335).
Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of RAF1.
Immunogen	A synthetic peptide corresponding to residues surrounding S43 of human RAF1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to RAF1.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of extracts from 293 cells, treated with PMA (125 ng/mL, 30 mins), using RAF1 polyclonal antibody (Cat # PAB18335).
  Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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  Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — RAF1

Entrez GeneID	5894
Protein Accession#	P04049
Gene Name	RAF1
Gene Alias	CRAF, NS5, Raf-1, c-Raf
Gene Description	v-raf-1 murine leukemia viral oncogene homolog 1
Omim ID	164760 611553 611554
Gene Ontology	Hyperlink

Gene Summary	This gene is the cellular homolog of viral raf gene (v-raf). The encoded protein is a MAP kinase kinase kinase (MAP3K), which functions downstream of the Ras family of membrane associated GTPases to which it binds directly. Once activated, the cellular RAF1 protein can phosphorylate to activate the dual specificity protein kinases MEK1 and MEK2, which in turn phosphorylate to activate the serine/threonine specific protein kinases, ERK1 and ERK2. Activated ERKs are pleiotropic effectors of cell physiology and play an important role in the control of gene expression involved in the cell division cycle, apoptosis, cell differentiation and cell migration. Mutations in this gene are associated with Noonan syndrome 5 and LEOPARD syndrome 2. [provided by RefSeq
Other Designations	Oncogene RAF1|raf proto-oncogene serine/threonine protein kinase

Publication Reference

- Global, in vivo, and site-specific phosphorylation dynamics in signaling networks.

  Olsen JV, Blagoev B, Gnad F, Macek B, Kumar C, Mortensen P, Mann M.

  Cell 2006 Nov; 127(3):635.

- The protein kinase Pak3 positively regulates Raf-1 activity through phosphorylation of serine 338.

  King AJ, Sun H, Diaz B, Barnard D, Miao W, Bagrodia S, Marshall MS.

  Nature 1998 Nov; 396(6707):180.

Pathway

- Acute myeloid leukemia
- B cell receptor signaling pathway
- Bladder cancer
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis

- Focal adhesion
- Gap junction
- Glioma
- GnRH signaling pathway
- Insulin signaling pathway
- Long-term depression
- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Melanoma
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway
- Vascular smooth muscle contraction
- VEGF signaling pathway

Disease

- Abnormalities
- Arrhythmias
- Articulation Disorders

- Cardiovascular Diseases
- Cognition
- Cognition Disorders
- Developmental Disabilities
- Diabetes Mellitus
- Dyslexia
- Edema
- Genetic Predisposition to Disease
- Glioma
- Hearing
- Heart Defects
- Hypertrophy
- Language Disorders
- LEOPARD Syndrome
- Memory
- Motor Skills
- Noonan Syndrome
- Skin Abnormalities
- Thyroid Neoplasms