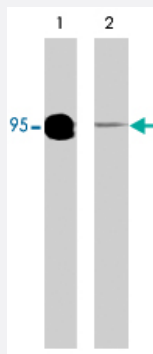


RAF1 polyclonal antibody

Catalog # PAB7870

Size 100 uL

Applications



Western Blot (Recombinant protein)

Western blot of GST fusion protein containing human RAF1. The blot was probed with RAF1 polyclonal antibody (Cat # PAB7870) in the presence (lane 2) or absence (lane 1) of RAF1 (C-terminus) blocking peptide (lane 2).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of RAF1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 637-648 of human RAF1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This sequence is conserved in C-Rafs from many species, and is not found in A-Raf or B-Raf.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1 mg/mL BSA, 0.05% 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 should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)

Western blot of GST fusion protein containing human RAF1. The blot was probed with RAF1 polyclonal antibody (Cat # PAB7870) in the presence (lane 2) or absence (lane 1) of RAF1 (C-terminus) blocking peptide (lane 2).

Gene Info — RAF1

Entrez GeneID [5894](#)

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

- [Identification of Raf-1 S471 as a novel phosphorylation site critical for Raf-1 and B-Raf kinase activities and for MEK binding.](#)

Zhu J, Balan V, Bronisz A, Balan K, Sun H, Leicht DT, Luo Z, Qin J, Avruch J, Tzivion G.

Molecular Biology of the Cell 2005 Oct; 16(10):4733.

- [Serine and tyrosine phosphorylations cooperate in Raf-1, but not B-Raf activation.](#)

Mason CS, Springer CJ, Cooper RG, Superti-Furga G, Marshall CJ, Marais R.

The EMBO Journal 1999 Apr; 18(8):2137.

Application: IP, KA, WB-Ce, WB-Tr, Monkey, Mouse, COS, NIH/3T3 cells

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](#)