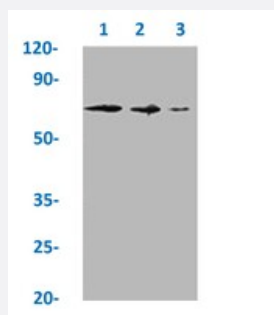


RecomAb™

RAF1 (phospho S259) recombinant monoclonal antibody, clone 4C9

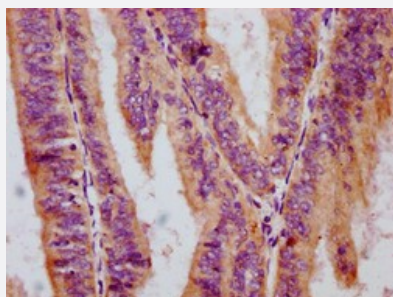
Catalog # RAB04274 Size 100 uL

Applications



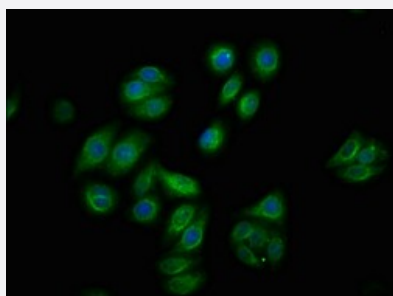
Western Blot

Western blot analysis of Lane 1: Hela whole cell lysate (treated with Calyculin A 100nM/60 mins), Lane 2: Hela whole cell lysate (treated with EGF 100ng/ml/20mins) and Lane 3: Hela whole cell lysate (not treated) with RAF1 (phospho S259) recombinant monoclonal antibody, clone 4C9 (Cat # RAB04274).



Immunohistochemistry

Immunohistochemical staining of human endometrial cancer with RAF1 (phospho S259) recombinant monoclonal antibody, clone 4C9 (Cat # RAB04274) (diluted at 1:100).



Immunofluorescence

Immunofluorescent staining of HepG2 cells with RAF1 (phospho S259) recombinant monoclonal antibody, clone 4C9 (Cat # RAB04274) (diluted at 1:100). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human RAF1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding S259 of human RAF1.
Theoretical MW (kDa)	Calculated MW: 73 kD
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °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

- Western Blot

Western blot analysis of Lane 1: Hela whole cell lysate (treated with Calyculin A 100nM/60 mins), Lane 2: Hela whole cell lysate (treated with EGF 100ng/ml/20mins) and Lane 3: Hela whole cell lysate (not treated) with RAF1 (phospho S259) recombinant monoclonal antibody, clone 4C9 (Cat # RAB04274).

- Immunohistochemistry

Immunohistochemical staining of human endometrial cancer with RAF1 (phospho S259) recombinant monoclonal antibody, clone 4C9 (Cat # RAB04274) (diluted at 1:100).

- Immunofluorescence

Immunofluorescent staining of HepG2 cells with RAF1 (phospho S259) recombinant monoclonal antibody, clone 4C9 (Cat # RAB04274) (diluted at 1:100). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- 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 G TPases 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

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](#)