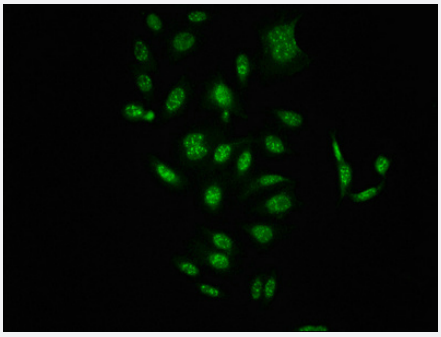
RecomAb™ Sm Size

RAF1 (phospho S621) recombinant monoclonal antibody, clone 1C2

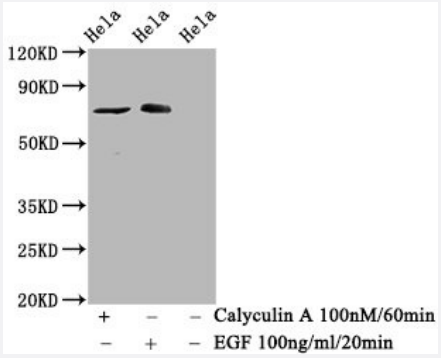
Catalog # RAB08128 Size 50 uL

Applications



Immunofluorescence

Immunofluorescent staining of HepG2 cells with RAF1 (phospho S621) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).



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 S621) recombinant monoclonal antibody.

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 S621 of human RAF1.
Theoretical MW (kDa)	Calculated MW: 73 kD

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Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) 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 shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescent staining of HepG2 cells with RAF1 (phospho S621) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

- 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 S621) recombinant monoclonal antibody.

Gene Info — RAF1

Entrez GeneID	5894
Protein Accession#	P04049
Gene Name	RAF1

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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 ki nase 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 activ ate the serine/threonine specific protein kinases, ERK1 and ERK2. Activated ERKs are pleiotropi c effectors of cell physiology and play an important role in the control of gene expression involved i n the cell division cycle, apoptosis, cell differentiation and cell migration. Mutations in this gene ar e 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

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- 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

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- 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

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