

**产品名称: Raf-1 (phospho Ser621) Rabbit Polyclonal Antibody**  
**产品货号: APRab05339**



## 产品概述 (Summary)

|                        |                                                   |
|------------------------|---------------------------------------------------|
| 产品名称 (Production Name) | Raf-1 (phospho Ser621) Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                        |
| 宿主 (Host)              | Rabbit                                            |
| 应用 (Application)       | WB,IHC,ICC/IF,ELISA                               |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat,Monkey                            |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Phosphorylated                                                                                    |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | RAF1                                                                                                                                               |
| 别名 (Alternative Names) | RAF1; RAF; RAF proto-oncogene serine/threonine-protein kinase; Proto-oncogene c-RAF; cRaf; Raf-1                                                   |
| 基因 ID (Gene ID)        | 5894.0                                                                                                                                             |
| 蛋白 ID (SwissProt ID)   | P04049.The antiserum was produced against synthesized peptide derived from human C-RAF around the phosphorylation site of Ser621. AA range:591-640 |

## 产品应用 (Application)

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| 稀释比 (Dilution Ratio) | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000 |
|----------------------|--------------------------------------------------------------------------|

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**蛋白分子量 (Molecular Weight)** 73kDa

## 研究背景 (Background)

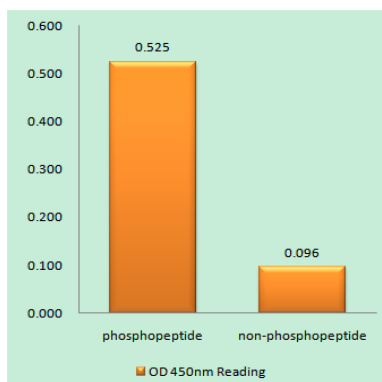
This gene is the cellular homolog of viral raf gene (v-raf). The encoded protein is a MAP kinase kinase kinase (MAP3K), which functions downstream of the Ras family of membrane associated GTPases to which it binds directly. Once activated, the cellular RAF1 protein can phosphorylate to activate the dual 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, Jul 2008],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Binds 2 zinc ions per subunit.,disease:Defects in RAF1 are the cause of LEOPARD syndrome type 2 (LEOPARD syndrome-2) [MIM:611554]. LEOPARD syndrome is an autosomal dominant disorder allelic with Noonan syndrome. The acronym LEOPARD stands for lentigines, electrocardiographic conduction abnormalities, ocular hypertelorism, pulmonic stenosis, abnormalities of genitalia, retardation of growth, and deafness.,disease:Defects in RAF1 are the cause of Noonan syndrome type 5 (NS5) [MIM:611553]. Noonan syndrome (NS) is a disorder characterized by dysmorphic facial features, short stature, hypertelorism, cardiac anomalies, deafness, motor delay, and a bleeding diathesis. It is a genetically heterogeneous and relatively common syndrome, with an estimated incidence of 1 in 1000-2500 live births.,function:Involved in the transduction of mitogenic signals from the cell membrane to the nucleus. Part of the Ras-dependent signaling pathway from receptors to the nucleus. Protects cells from apoptosis mediated by STK3.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR. Phosphorylation at Thr-269 increases its kinase activity.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. RAF subfamily.,similarity:Contains 1 phorbol-ester/DAG-type zinc finger.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 RBD (Ras-binding) domain.,subunit:Interacts with Ras proteins; the interaction is antagonized by RIN1. Weakly interacts with RIT1 (By similarity). Interacts with STK3; the interaction inhibits its pro-apoptotic activity. Interacts with YWHAZ (unphosphorylated at 'Thr-232').,tissue specificity:In skeletal muscle, isoform 1 is more abundant than isoform 2.,

## 研究领域 (Research Area)

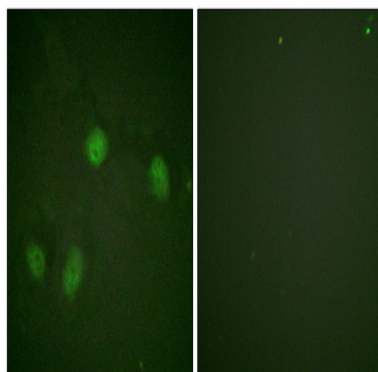
MAPK\_ERK\_Growth;MAPK\_G\_Protein;ErbB\_HER;Chemokine;Vascular smooth muscle contraction;VEGF;Focal adhesion;Gap junction;Natural killer cell mediated cytotoxicity;T\_Cell\_Receptor;B\_Cell\_Antigen;Fc epsilon RI;Fc gamma R-mediated phagocytosis;Long-term potentiation;Neurotrophin;Long-term depression;Regulates Actin and Cytoskeleton;Insulin\_Receptor;GnRH;Progesterone-mediated oocyte maturation;Melanogenesis;Pathways in cancer;Colorectal cancer;Renal cell carcinoma;Pancreatic cancer;Endometrial cancer;Glioma;Prostate cancer;Melanoma;Bladder cancer;Chronic myeloid leukemia;Acute myeloid leukemia;Non-small cell lung cancer;

## 图片 (Image Data)

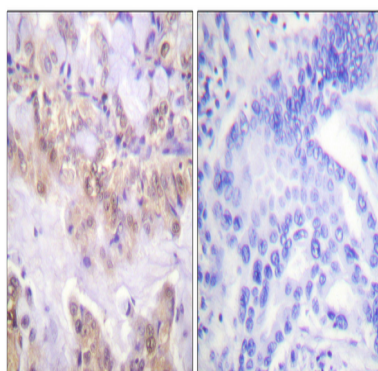
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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using C-RAF (Phospho-Ser621) Antibody

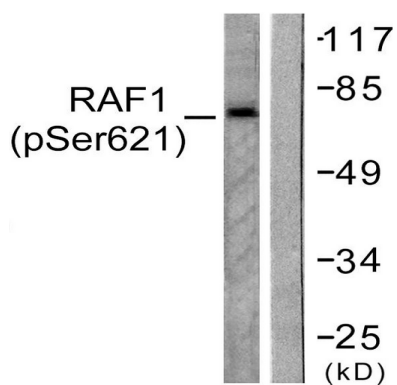


Immunofluorescence analysis of HeLa cells, using C-RAF (Phospho-Ser621) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using C-RAF (Phospho-Ser621) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from HeLa cells treated with UV 5', using C-RAF (Phospho-Ser621) Antibody. The lane on the right is blocked with the phospho peptide.

#### 注意事项 (Note)

For research use only .