Raf-1 (Phospho Ser296) Rabbit pAb

CatalogNo: YP0690 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 74kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:20000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human C-RAF around the phosphorylation site of Ser296. AA range:271-320

Specificity Phospho-Raf-1 (S296) Polyclonal Antibody detects endogenous levels of Raf-1 protein only when phosphorylated at S296.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SSsPN

Target Information

Gene name RAF1

Protein Name RAF proto-oncogene serine/threonine-protein kinase

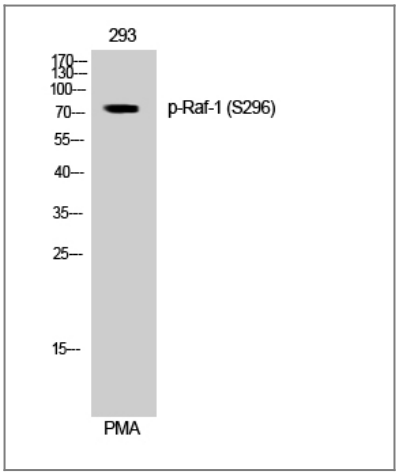
Organism	Gene ID	UniProt ID
Human	5894;	P04049;
Mouse	110157;	Q99N57;
Rat	24703;	P11345;

Cellular Localization Cytoplasm. Cell membrane. Mitochondrion. Nucleus. Colocalizes with RGS14 and BRAF in both the cytoplasm and membranes. Phosphorylation at Ser-259 impairs its membrane accumulation. Recruited to the cell membrane by the active Ras protein. Phosphorylation at Ser-338 and Ser-339 by PAK1 is required for its mitochondrial localization. Retinoic acid-induced Ser-621 phosphorylated form of RAF1 is predominantly localized at the nucleus.

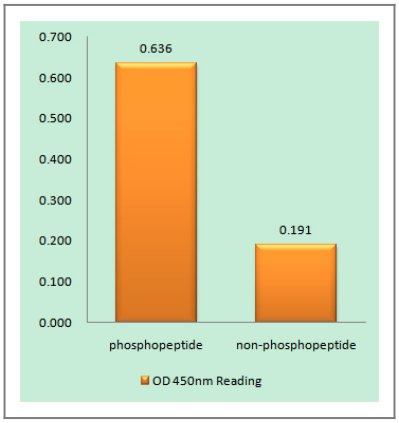
Tissue specificity In skeletal muscle , isoform 1 is more abundant than isoform 2.

Function 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. ,

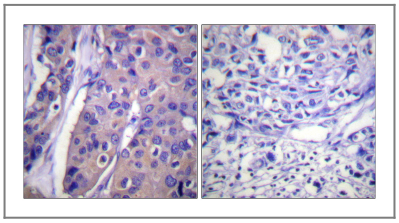
Validation Data



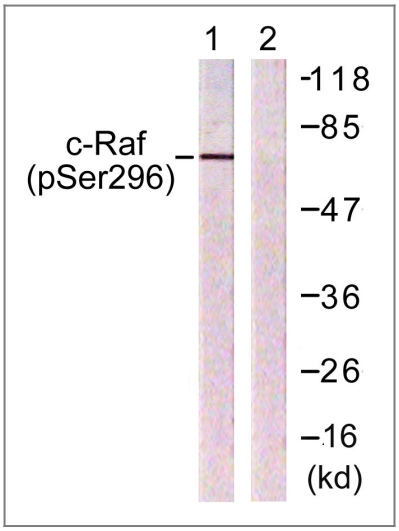
Western Blot analysis of 293 cells using Phospho-Raf-1 (S296) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using C-RAF (Phospho-Ser296) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using C-RAF (Phospho-Ser296) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with PMA 125ng/ml 30' , using C-RAF (Phospho-Ser296) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
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