Raf 1 (Phospho Tyr340) Rabbit pAb

CatalogNo: YP1809

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- IHC,WB

MW
- 71kD (Calculated)

Storage

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

Recommended Dilution Ratios

WB 1:500-2000
IHC 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human C-RAF (Phospho Tyr340)
Specificity	This antibody detects endogenous levels of C-RAF (Phospho Tyr340) Rabbit pAb at Human, Mouse,Rat

Target Information

Gene name	RAF1 RAF

Protein Name RAF proto-oncogene serine/threonine-protein kinase (Proto-oncogene c-RAF) (cRaf) (Raf-1)

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

Contact information

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Please scan the QR code to access additional product information: **Raf 1 (Phospho Tyr340) Rabbit pAb**