

Raf-1 (Phospho Ser259) (PT1225R) PT™ Rabbit mAb

CatalogNo: YM9067 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 73kD (Calculated)
73kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:400-1:1000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

Basic Information

Clonality Monoclonal

Clone Number PT1225R

Immunogen Information

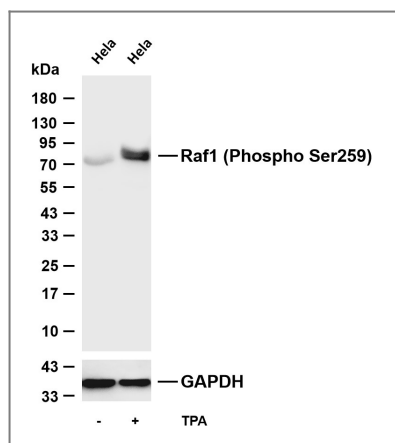
Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity Raf1 (Phospho Ser259) Antibody detects endogenous levels of Raf-1 protein only when phosphorylated at S259. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):STsTP

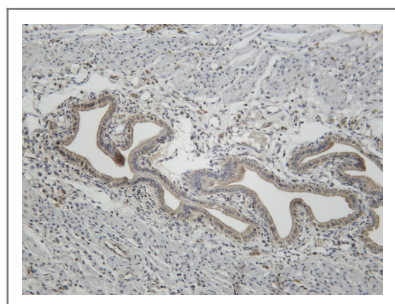
Target Information

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. ,		

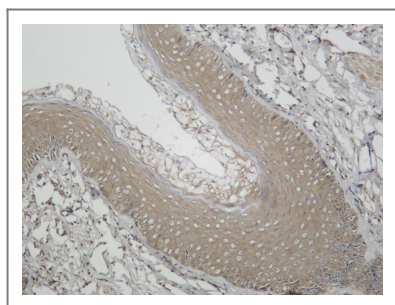
Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Raf1 (Phospho Ser259) (PT1225R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: HeLa was treated with TPA (200 ng/ml) for 15 minutes Predicted band size: 73kDa Observed band size: 73kDa



Mouse uterus was stained with anti-Raf1 (Phospho Ser259) (PT1225R) Rabbit antibody



Rat uterus was stained with anti-Raf1 (Phospho Ser259) (PT1225R) Rabbit antibody

Contact information

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Please scan the QR code to access additional product information:
Raf-1 (Phospho Ser259) (PT1225R) PT™ Rabbit mAb

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