

Raf-1 (Phospho Ser338) (PT0881R) PT™ Rabbit mAb

CatalogNo: YM8757 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IF, ELISA

MW

- 73kD (Calculated)
74kD (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

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

Basic Information

Clonality Monoclonal

Clone Number PT0881R

Immunogen Information

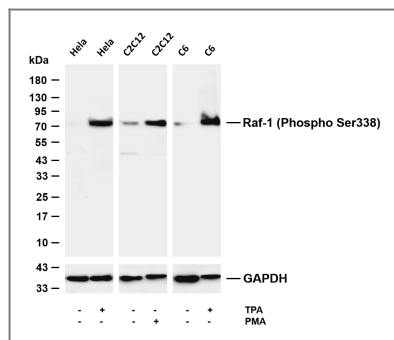
Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity Raf-1 (Phospho Ser338) Monoclonal Antibody detects endogenous levels of Raf-1 protein only when phosphorylated at S338. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):RDSY

| 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-Raf-1 (Phospho Ser338) (PT0881R) 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 (200ng/mL) for 15 minutes Lane 3: C2C12 Lane 4: C2C12 was treated with PMA (200nM) for 30 minutes Lane 5: C6 Lane 6: C6 was treated with TPA (200nM) for 30 minutes Predicted band size: 73kDa Observed band size: 74kDa

Contact information

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Raf-1 (Phospho Ser338) (PT0881R) PT™ Rabbit mAb

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