

Phospho-RAF1(S338) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3350a

Specification

Phospho-RAF1(S338) Antibody - Product Information

Application	WB, DB,E
Primary Accession	P04049
Other Accession	P11345 , Q99N57 , P05625 , A7E3S4 , NP_002871
Reactivity Predicted	Human Bovine, Chicken, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	73052

Phospho-RAF1(S338) Antibody - Additional Information

Gene ID 5894

Other Names

RAF proto-oncogene
serine/threonine-protein kinase,
Proto-oncogene c-RAF, cRaf, Raf-1, RAF1,
RAF

Target/Specificity

This RAF1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S338 of human RAF1.

Dilution

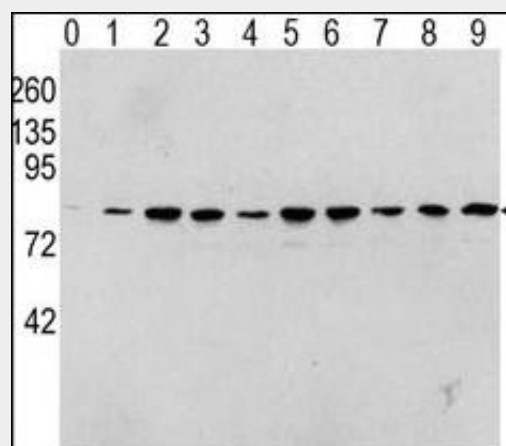
WB~~1:1000
DB~~1:500

Format

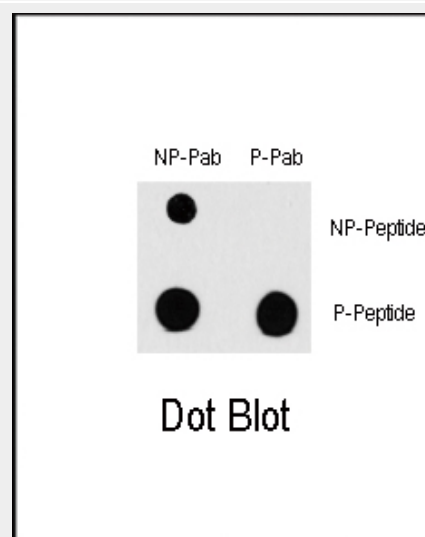
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2



Western blot analysis of Phospho-RAF1-pS338 Antibody in human TPA activated Hela cell line lysates. Phospho-RAF1 (arrow) was detected using the purified PAb. (0: without TPA; 1: 60ug/ml TPA, 15min; 2: 60ug/ml TPA, 30min; 3: 60ug/ml TPA, 45min; 4: 125ug/ml TPA, 15min; 5: 125ug/ml TPA, 30min; 6: 125ug/ml TPA, 45min; 7: 250ug/ml TPA, 15min; 8: 250ug/ml TPA, 30min; 9: 250ug/ml, 45min)



Dot blot analysis of anti-RAF1-pS338 Phospho-specific Pab (Cat.#AP3350a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per

weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-RAF1(S338) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-RAF1(S338) Antibody - Protein Information

Name RAF1

Synonyms RAF

Function

Serine/threonine-protein kinase that acts as a regulatory link between the membrane-associated Ras GTPases and the MAPK/ERK cascade, and this critical regulatory link functions as a switch determining cell fate decisions including proliferation, differentiation, apoptosis, survival and oncogenic transformation. RAF1 activation initiates a mitogen-activated protein kinase (MAPK) cascade that comprises a sequential phosphorylation of the dual-specific MAPK kinases (MAP2K1/MEK1 and MAP2K2/MEK2) and the extracellular signal- regulated kinases (MAPK3/ERK1 and MAPK1/ERK2). The phosphorylated form of RAF1 (on residues Ser-338 and Ser-339, by PAK1) phosphorylates BAD/Bcl2-antagonist of cell death at 'Ser-75'. Phosphorylates adenylyl cyclases: ADCY2, ADCY5 and ADCY6, resulting in their activation. Phosphorylates PPP1R12A resulting in inhibition of the phosphatase activity. Phosphorylates TNNT2/cardiac muscle troponin T. Can promote NF-kB activation and inhibit signal transducers involved in motility (ROCK2), apoptosis (MAP3K5/ASK1 and STK3/MST2), proliferation and angiogenesis (RB1). Can protect cells from apoptosis also by translocating to the mitochondria where it binds BCL2 and displaces BAD/Bcl2-antagonist of cell death. Regulates Rho signaling and migration, and is required for normal wound healing. Plays a role in the oncogenic transformation of epithelial cells via repression of the TJ protein, occludin (OCLN) by inducing the up-regulation of a transcriptional repressor SNAI2/SLUG, which induces down-regulation

dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

Phospho-RAF1(S338) Antibody - Background

Raf-1 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 Raf-1 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.

Phospho-RAF1(S338) Antibody - References

Pandit,B., Nat. Genet. 39 (8), 1007-1012 (2007)
Razzaque,M.A., Nat. Genet. 39 (8), 1013-1017 (2007)

of OCLN. Restricts caspase activation in response to selected stimuli, notably Fas stimulation, pathogen-mediated macrophage apoptosis, and erythroid differentiation.

Cellular Location

Cytoplasm. Cell membrane. Mitochondrion. Nucleus. Note=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 Location

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

Phospho-RAF1(S338) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)