

# Phospho-Raf1-S259 Rabbit mAb

Catalog No.: AP1012 **Recombinant** **2 Publications**

## Basic Information

### Observed MW

73-75kDa

### Calculated MW

73kDa

### Category

Primary antibody

### Applications

WB,ELISA

### Cross-Reactivity

Human, Rat

### CloneNo number

ARC1557

## Background

This gene is the cellular homolog of viral raf gene (v-raf). The encoded protein 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, the cellular RAF1 protein 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. Mutations in this gene are associated with Noonan syndrome 5 and LEOPARD syndrome 2.

## Recommended Dilutions

**WB** 1:500 - 1:1000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

5894

### Swiss Prot

P04049

### Immunogen

A synthetic phosphorylated peptide around S259 of human RAF1 (P04049).

### Synonyms

NS5; CRAF; Raf-1; c-Raf; CMD1NN; Phospho-Raf1-S259

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

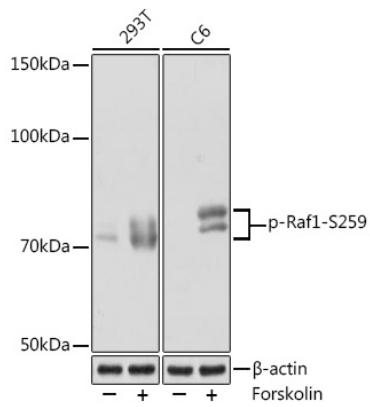
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Validation Data

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Western blot analysis of various lysates using Phospho-Raf1-S259 Rabbit mAb (AP1012) at 1:1000 dilution. Both 293T cells and C6 cells were treated by Forskolin (10 uM) at 37°C for 1 hour after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.