Phospho-Raf1-S621 Rabbit pAb

Catalog No.: AP0087



Basic Information

Observed MW

73kDa

Calculated MW

73kDa

Category

Primary antibody

Applications

WB,IP,ELISA

Cross-Reactivity

Human

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 - 1:2000

IP 0.5μg-4μg antibody for 200μg-400μg extracts of

whole cells

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID5894

Swiss Prot
P04049

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

NS5; CRAF; Raf-1; c-Raf; CMD1NN; Phospho-Raf1-S621

Contact

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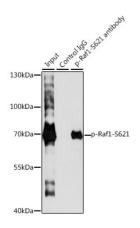
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

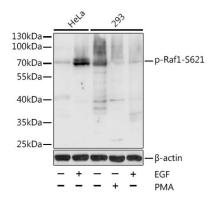
Storage

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

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Immunoprecipitation analysis of 200 μg extracts of HeLa cells, using 3 μg Phospho-Raf1-S621 pAb (AP0087). Western blot was performed from the immunoprecipitate using Phospho-Raf1-S621 pAb (AP0087) at a dilution of 1:1000. HeLa cells were treated with EGF (100 ng/mL) at 37°C for 30 minutes after serum-starvation overnight.



Western blot analysis of lysates from HeLa and 293T cells, using Phospho-Raf1-S621 Rabbit pAb (AP0087) at 1:1000 dilution. HeLa cells were treated with EGF (100ng/mL) for 30 minutes after serum-starvation overnight. 293T cells were treated with PMA/TPA (200nM) for 30 minutes or treated with EGF (25µg/mL) for 30 minutes 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.