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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 ID
5894

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

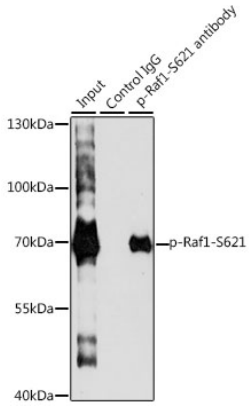
Source
Rabbit

Isotype
IgG

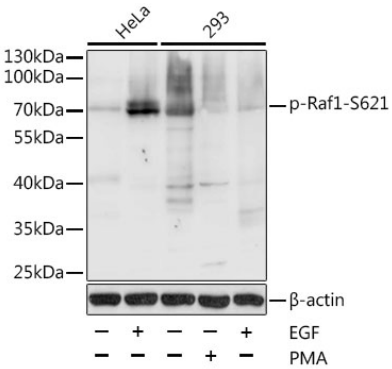
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



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℃ 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.