

Raf-1 (Phospho-Ser621) polyclonal antibody

Catalog: AP0550

Host: Rabbit

Reactivity: Human,Rat,Mouse

Background:

A-Raf, B-Raf, and c-Raf (Raf-1) are the main effectors recruited by GTP-bound Ras to activate the MEK-MAP kinase pathway. Activation of c-Raf is the best understood and involves phosphorylation at multiple activating sites, including Ser338, Tyr341, Thr491, Ser494, Ser497, and Ser499. p21-activated kinase (PAK) has been shown to phosphorylate c-Raf at Ser338, and the Src family phosphorylates Tyr341 to induce c-Raf activity. Ser338 of c-Raf corresponds to similar sites in A-Raf (Ser299) and B-Raf (Ser445), although this site is constitutively phosphorylated in B-Raf. Inhibitory 14-3-3 binding sites on c-Raf (Ser259 and Ser621) can be phosphorylated by Akt and AMPK, respectively. While A-Raf, B-Raf, and c-Raf are similar in sequence and function, differential regulation has been observed. Of particular interest, B-Raf contains three consensus Akt phosphorylation sites (Ser364, Ser428, and Thr439) and lacks a site equivalent to Tyr341 of c-Raf. Research studies have shown that the B-Raf mutation V600E results in elevated kinase activity and is commonly found in malignant melanoma. Six residues of c-Raf (Ser29, Ser43, Ser289, Ser296, Ser301, and Ser642) become hyperphosphorylated in a manner consistent with c-Raf inactivation. The hyperphosphorylation of these six sites is dependent on downstream MEK signaling and renders c-Raf unresponsive to subsequent activation events.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

Molecular Weight:

~ 75 kDa

Swiss-Prot:

P04049

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum

by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000~1:2000

IF: 1:50~1:200

IP: 1:50~1:200

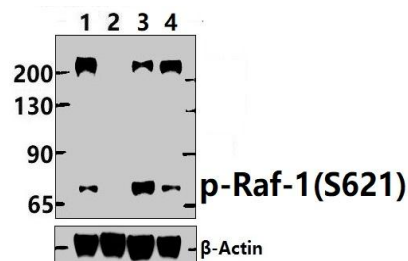
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Raf-1 (Phospho-Ser621) polyclonal antibody detects endogenous levels of Raf-1 protein only when phosphorylated at Ser621.

DATA:



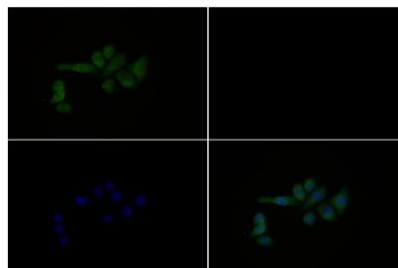
Western blot (WB) analysis of Raf-1 (Phospho-Ser621) polyclonal antibody at 1:1000 dilution

Lane1:HeLa whole cell lysate(30ug)

Lane2:HeLa treated with λ -phosphatase whole cell lysate(30ug)

Lane3:CT-26 whole cell lysate(30ug)

Lane4:PC12 whole cell lysate(30ug)



Immunofluorescence analysis of EC9706 cells using Raf-1 (Phospho-Ser621) pAb at dilution of 1:200 (40x lens).

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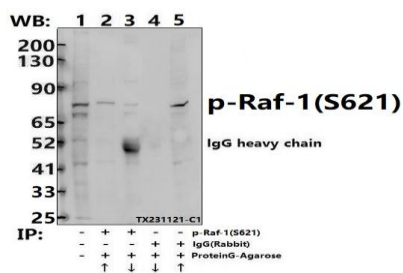
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Immunoprecipitation of HEK293T cell lysates using Raf-1 (Phospho-Ser621) pAb (Sepharose Bead Conjugate)#BD0048 (lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0048 (lane 4 and lane 5). Lane 1 is 30% input. The western blot was probed using Raf-1 (Phospho-Ser621) pAb.

Note:

For research use only, not for use in diagnostic procedure.

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