C-RAF (Phospho-Ser642) Antibody

Catalog No: #11826

Package Size: #11826-1 50ul #11826-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

| Description | |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| Product Name | C-RAF (Phospho-Ser642) Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. |
| | Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho |
| | specific antibodies were removed by chromatogramphy using non-phosphopeptide. |
| Applications | WB |
| Species Reactivity | Hu |
| Specificity | The antibody detects endogenous levels of C-RAF only when phosphorylated at serine 642. |
| Immunogen Type | Peptide-KLH |
| Immunogen Description | Peptide sequence around phosphorylation site of Serine 642(T-T-S(p)-P-R) derived from Human C-RAF. |
| Target Name | C-RAF |
| Modification | Phospho |
| Other Names | C-RAF; C-Raf; CRAF; RAF-1; |
| Accession No. | Swiss-Prot#: P04049; NCBI Gene#: 5894; NCBI Protein#: NP_002871.1. |
| Uniprot | P04049 |
| GeneID | 5894; |
| SDS-PAGE MW | 74kd |
| Concentration | 1.0mg/ml |

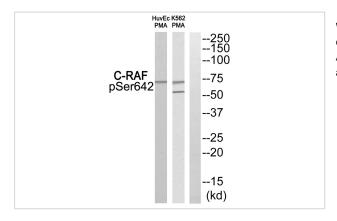
Application Details

Western blotting: 1:500~1:1000

Images

Formulation

Storage



and 50% glycerol.

Store at -20°C/1 year

Western blot analysis of extracts from HuvEc cells and K562 cells treated with PMA using C-RAF (Phospho-Ser642) Antibody #11826. The lane on the right is treated with the antigen-specific peptide.

Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide

Background

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 (MAPZK1/MEK1 and MAPZK2/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 of OCLN. Restricts caspase activation in response to selected stimuli, notably Fas stimulation, pathogen-mediated macrophage apoptosis, and erythroid differentiation.

Ota T., Nat. Genet. 36:40-45(2004).

Mural R.J., Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Note: This product is for in vitro research use only