10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-Ser642 Raf-1 Antibody

Affinity purified rabbit polyclonal antibody

Catalog # AN1095

Specification

Phospho-Ser642 Raf-1 Antibody - Product Information

Application	**WB**
Primary Accession	P11345
Reactivity	**Rat**
Predicted	**Human, Mouse, Monkey, Chicken, Bovine**
Host	**Rabbit**
Clonality	**polyclonal**
Calculated MW	**74 KDa**

Phospho-Ser642 Raf-1 Antibody - Additional Information

Gene ID	**24703**
Gene Name	**RAF1**

Other Names

RAF proto-oncogene serine/threonine-protein kinase, Proto-oncogene c-RAF, cRaf, Raf-1, Raf1, Raf

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser642 conjugated to KLH.

Dilution

WB~~1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and non-phosphopeptide affinity columns.

Antibody Specificity

Specific for the ~74k Raf-1 protein phosphorylated at Ser642

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-Ser642 Raf-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

Phospho-Ser642 Raf-1 Antibody - Protocols

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-Ser642 Raf-1 Antibody - Images

Phospho-Ser642 Raf-1 Antibody - Background

The Ras pathway is a critical signal transduction cascade involved in regulating cellular proliferation, differentiation, survival, and oncogenic transformation. Members of the Raf serine/threonine kinase family are key intermediates in this cascade, functioning to relay signals from activated Ras to the downstream protein kinases MEK and ERK (Marshall, 1996). Previous studies have s
hown that phosphorylation is required for Raf-1
activation (Dhillon and Kolch, 2002; Chong et al., 2003). Recent work has demonstrated that phosphorylation also regulates the downregulation of Raf (Dougherty et al., 2005) with two sites participating: Ser
301
and Ser
642

Phospho-Ser642 Raf-1 Antibody - References

Chong H, Vikis HG, Guan KL (2003) Mechanisms of regulati
ng the Raf kinase family. Cellular Signalling 15:463-469.
Dhillon AS, Kolch W (2002) Untying the regulation of
the Raf-1 kinase. Arch Biochem Biophys 404:3-9.
Dougherty MK, Muller J, Ritt DA, Zhou M, Zhou XZ, Copeland TD, Conrads TP, Veenstra TD, Lu KP, Morrison DK
(2005) Regulation of Raf-1 by Direct Feed
back Phosphorylation. Mol Cell 17:215-224.
Marshall CJ (1996) Ras effectors. current
opinion in cell biology 8:197-204.