

**Phospho-Ser642 Raf-1 Antibody**  
**Affinity purified rabbit polyclonal antibody**  
**Catalog # AN1095**

## Specification

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### Phospho-Ser642 Raf-1 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P11345</a>
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.

#### 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

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

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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 shown 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 regulating 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 Feedback Phosphorylation. Mol Cell 17:215-224.  
Marshall CJ (1996) Ras effectors. current opinion in cell biology 8:197-204.