

Datasheet for 612-401-E24**Raf-1 phospho S642 Antibody****Overview**

Description:	Anti-Raf-1 pS642 (RABBIT) Antibody - 612-401-E24
Item No.:	612-401-E24
Size:	100 µL
Applications:	WB
Reactivity:	Human, Rat
Host Species:	Rabbit

Product Details

Background:	Raf-1 pS642 antibody detects phosphorylated Raf-1. 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. Previous studies have shown that phosphorylation is required for Raf-1 activation. Recent work has demonstrated that phosphorylation also regulates the downregulation of Raf with two sites participating: Ser301 and Ser642. Anti-Raf-1 pS642 Antibody is ideal for investigators involved in Cancer, Neuroscience, Signal Transduction research.
Synonyms:	RAF proto-oncogene serine/threonine-protein kinase, Proto-oncogene c-RAF, cRaf
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Raf1
Reactivity:	Human, Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Raf-1 pS642 Antibody was produced in rabbit by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser642 conjugated to KLH.
Purity/Specificity:	Anti-Raf-1 pS642 antibodies are affinity purified from monospecific antiserum by immunoaffinity purification. This antibody is directed against rat Raf 1 proteins phosphorylated at Ser642. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. Reactivity is expected from the following species based on 100% sequence homology: bovine, canine, chicken, human, mouse and non-human primates.
Relevant Links:	• UniProtKB - P11345 • GeneID - 24703 • UniProtKB - P11345.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Raf 1 pS642 antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 74 kDa in size corresponding to Raf-1 protein phosphorylated at Ser642 in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

Formulation

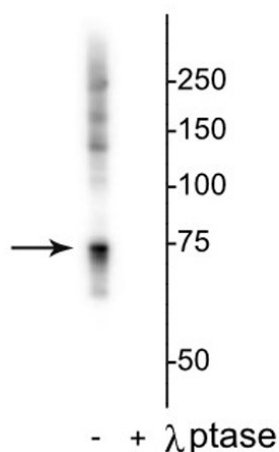
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot of Anti-Raf-1 pS642 Antibody.

HeLa lysate showing specific labeling of the ~74 kDa Raf 1 protein phosphorylated at Ser642 in the first lane (-).

Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 minutes).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.