

Datasheet for 600-401-E12

Polo-Like Kinase phospho S482/phospho S486/phospho S490 Antibody

Overview

Description:	Anti-Polo-Like Kinase pS482/pS486/pS490 (RABBIT) Antibody - 600-401-E12
Item No.:	600-401-E12
Size:	100 µL
Applications:	WB
Reactivity:	Xenopus
Host Species:	Rabbit

Product Details

Background:	Polo-Like Kinase pS482/pS486/pS490 detects Polo-Like Kinase proteins. Considerable evidence indicates that a polo-like kinase (PLK) plays an important role in cell cycle regulation. PLK is also required for bipolar spindle formation, activation of the anaphase-promoting complex/cyclosome, and cytokinesis. Recent work led to the identification of a PLKK that is thought to be responsible for activation of PLK. Recent work has shown that PLKK is in turn activated by phosphorylation at three sites (Ser482, Ser486 and Ser490). Thus activation of PLK is thought to involve a kinase cascade involving the phosphorylation of Ser482,486,490 in PLKK. Anti-Polo-Like Kinase pS482/pS486/pS490 Antibody is ideal for investigators involved in Cell Cycle and Apoptosis research.
Synonyms:	Serine/threonine-protein kinase PLK1, Plx1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PLK1
Reactivity:	Xenopus
PTM Specificity:	Phosphorylation

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Polo-like Kinase pS482/pS486/pS490 Antibody was produced by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding Ser392482/486/490.
Purity/Specificity:	Anti-Polo-Like Kinase pS482/pS486/pS490 antibody is directed against phosphorylated Polo-Like Kinase protein. 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: rat, mouse, human, and zebra fish.
Relevant Links:	• UniProtKB - P70032 • GenelD - 380481 • UniProtKB - P53350.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Polo-Like Kinase pS482/pS486/pS490 Antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 120 kDa in size corresponding to PLKK protein phosphorylated at Ser482/486/490 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

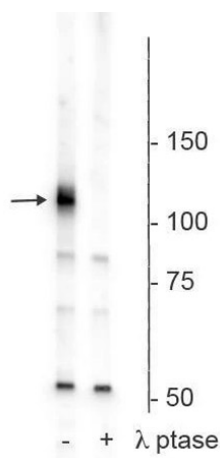
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
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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-Polo-Like Kinase pS482/pS486/pS490 Antibody.

Rat hippocampal membrane lysate showing specific immunolabeling of the ~120 kDa Polo-Like Kinase Kinase phosphorylated at Ser482,486,490 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 overnight).

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.