Overview

Product name: Anti-Thiophosphate ester antibody [51-8] ab92570

Description: Rabbit monoclonal [51-8] to Thiophosphate ester

Host species: Rabbit

Specificity: This antibody is specific to thiophosphorylated amino acids.

Tested applications: Suitable for: WB

Species reactivity: Reacts with: Species independent

Immunogen: Chemical/ Small Molecule corresponding to Thiophosphate ester conjugated to keyhole limpet haemocyanin.

General notes: This antibody was developed as part of a collaboration between Abcam and the lab of Dr. Kevan Shokat at University of California at San Francisco.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

Our RabMAb technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Properties

39 References  1 Image
Form: Liquid

Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.5% BSA

Purity: Protein A purified

Primary antibody notes: ab92570 can be used to detect kinase substrates containing thiophosphate esters following the kinase reaction as described by J. Allen and colleagues in Nature methods 2007. This antibody allows researchers to follow this approach to study kinase-substrate relationships of interest. The antibody is also context independent in that it can recognize serine, threonine, and tyrosine thiophosphorylated residues in a multitude of kinase phosphorylation consensus motifs. In order for this antibody to work in WB and IP, the customer needs to perform a specific kinase reaction using ATP gamma S and PNBM. See specific Protocol at the bottom of this page for details.

Clonality: Monoclonal

Clone number: 51-8

Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab92570 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Target

Relevance: Thiophosphate ester is used as fungicide.

Images
**All lanes**: Anti-Thiophosphate ester antibody [51-8] (ab92570) at 1/5000 dilution

**Lane 1**: JNK1 protein (10ng) incubated with c-jun-GST substrate (1ug)
**Lane 2**: JNK1 protein (10ng) incubated with c-jun-GST substrate (1ug) using alkylation with PNBM (2.5mM).
**Lane 3**: JNK1 protein (10ng) incubated with c-jun-GST substrate (1ug) using ATP-gamma-S
**Lane 4**: JNK1 protein (10ng) incubated with c-jun-GST substrate (1ug) using ATP-gamma-S followed by alkylation with PNBM (2.5mM).

In vitro kinase reaction was carried out for 30 minutes at room temperature. PNBM alkylation (2.5mM) was for 2 hours at room temperature. Reaction products were analyzed by western blot with thiophosphate ester specific ab92570 at 1/5000, alpha-GST antibody confirms equal loading.

**Please note**: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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