

Product datasheet

Anti-Thiophosphate ester antibody [51-8] ab92570

Recombinant RabMAb

[71 References](#) [2 Images](#)

Overview

Product name	Anti-Thiophosphate ester antibody [51-8]
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	<p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>It is possible to use ab92570 with ab138911 as a kinase reaction reagent for the identification of direct kinase substrates as mentioned in Allen JJ <i>et al.</i> Nat Methods 4:511-6 (2007).</p> <p>After the kinase of interest has accepted ATP-γ-S (ab138911), <i>p</i>-Nitrobenzyl mesylate (ab138910) can be used to alkylate the thiophosphorylation site on the substrates. ab92570 is introduced to identify the tagged substrates.</p> <p>For more information see here.</p>

Properties

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: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS

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 as allow 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

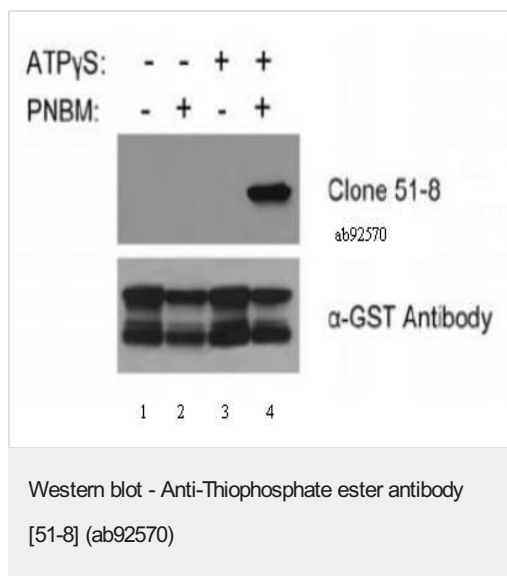
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92570 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000.

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)

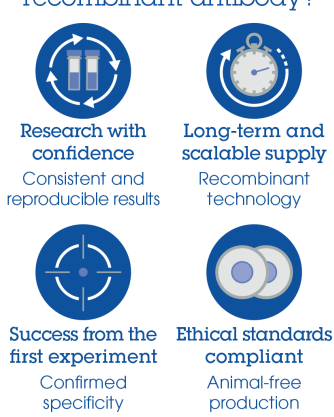
Lane 2 : JNK1 protein (10ng) incubated with c-jun-GST substrate (1ug) using alkylation with PNBM (2.5mM).

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.

Why choose a recombinant antibody?



- Research with confidence**
Consistent and reproducible results
- Long-term and scalable supply**
Recombinant technology
- Success from the first experiment**
Confirmed specificity
- Ethical standards compliant**
Animal-free production

Anti-Thiophosphate ester antibody [51-8] (ab92570)

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

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