abcam

Product datasheet

Anti-PBK/SPK (phospho T9) antibody [EPR2475(N)] ab184953

Recombinant RabMAb

1 References 6 Images

Overview

Product name Anti-PBK/SPK (phospho T9) antibody [EPR2475(N)]

Description Rabbit monoclonal [EPR2475(N)] to PBK/SPK (phospho T9)

Host species Rabbit

Tested applications Suitable for: Flow Cyt (Intra), IHC-P, WB

Species reactivity Reacts with: Rat, Human

Predicted to work with: Mouse

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: HeLa cells/lysate treated with Nocodazole. IHC-P: Human testis and rat spleen tissues. Flow

Cyt (intra): HeLa cells.

General notesThis 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

For more information **see here**.

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

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer pH: 7.2

Preservative: 0.01% Sodium azide

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

Purity Protein A purified

Clonality Monoclonal

1

Clone number EPR2475(N)

Isotype IgG

Applications

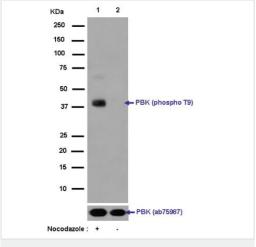
The Abpromise guarantee Our Abpromise guarantee covers the use of ab184953 in the following tested applications.

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

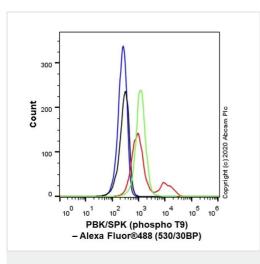
Application	Abreviews	Notes
Flow Cyt (Intra)		1/800. ab172730 - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000 - 1/10000. Detects a band of approximately 40 kDa (predicted molecular weight: 36 kDa).

Target		
Function	Phosphorylates MAP kinase p38. Seems to be active only in mitosis. May also play a role in the activation of lymphoid cells. When phosphorylated, forms a complex with TP53, leading to TP53 destabilization and attenuation of G2/M checkpoint during doxorubicin-induced DNA damage.	
Tissue specificity	Expressed in the testis and placenta. In the testis, restrictedly expressed in outer cell layer of seminiferous tubules.	
Sequence similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. MAP kinase kinase subfamily. Contains 1 protein kinase domain.	
Post-translational modifications	Phosphorylated; in a cell-cycle dependent manner at mitosis.	

Images



Western blot - Anti-PBK/SPK (phospho T9) antibody [EPR2475(N)] (ab184953)



Flow Cytometry (Intracellular) - Anti-PBK/SPK (phospho T9) antibody [EPR2475(N)] (ab184953) All lanes: Anti-PBK/SPK (phospho T9) antibody [EPR2475(N)] (ab184953) at 1/5000 dilution

Lane 1: HeLa cell lysate treated with Nocodazole

Lane 2: HeLa cell lysate untreated

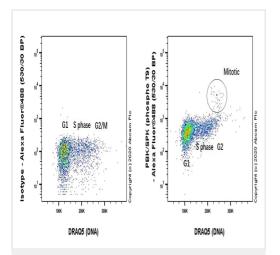
Lysates/proteins at 10 µg per lane.

Secondary

All lanes: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

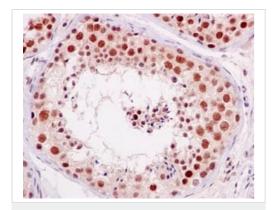
Predicted band size: 36 kDa Observed band size: 40 kDa

Intracellular flow cytometric analysis of 4% paraformal dehyde-fixed, 90% methanol-permeabilised HeLa (Human cervix adenocarcinoma epithelial cell) treated with 0.1µg/mL Nocodazole for 24h (Red) / Untreated control (Green) cells labeling PBK/SPK (phospho T9) with ab184953 at 1/800 dilution compared with a Isotype control Rabbit monoclonal IgG (ab172730) (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit lgG (Alexa Fluor® 488, **ab150077**), at 1/2000 dilution was used as the secondary antibody. Higher expression in part of Nocodazole treated samples (mitotic cell induction) which is consistent with cell cycle Flow Cytometry data.



Flow Cytometry (Intracellular) - Anti-PBK/SPK (phospho T9) antibody [EPR2475(N)] (ab184953)

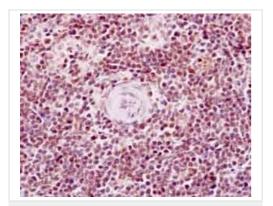
Intracellular flow cytometric analysis of 4% paraformaldehyde fixed HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling PBK/SPK (phospho T9) with ab184953 at 1/800 dilution (Right) compared with aRabbit monoclonal lgG Isotype control (ab172730) (Left). Cells permeabilised with 90% methanol. Goat anti rabbit lgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody. Highest expression at M phase.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-PBK/SPK (phospho T9) antibody [EPR2475(N)] (ab184953)

Immunohistochemical analysis of paraffin-embedded human testis tissue labeling PBK/SPK (phospho T9) with ab184953 at 1/100 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

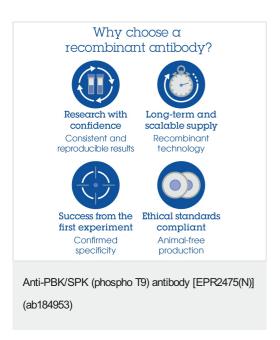
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-PBK/SPK (phospho T9) antibody [EPR2475(N)] (ab184953)

Immunohistochemical analysis of paraffin-embedded rat spleen tissue labeling PBK/SPK (phospho T9) with ab184953 at 1/100 dilution followed by prediluted HRP Polymer for Rabbit lgG. Counter stained with Hematoxylin

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- · Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- · We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors