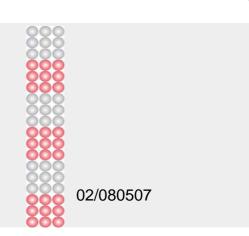




Phosphothreonine Detection Kit

Order No.:

0702/PTHR-KIT



Background and Specificity

Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the nucleus. Phosphorylated epitopes may serve as docking sites for the assembley of protein complexes or may alter the 3-dimensional protein structure thus modulating enzymatic activity or the ability to undergo protein-protein interactions.

Modification of proteins on tyrosine residues is mediated by protein tyrosin kinases. Tyrosine phosphorylation may alter the biological activity or mediate the assembly of protein complexes via the interaction of phosphotyrosine residues with SH2 or PTB domains.

Antibodies direct against phosphorylated epitopes recognize the phosphorylated amino acid in the context of the surrounding amino acid sequence. Recognition is therefore dependent on 2 criteria: 1) phosphorylation and 2) the surrounding amino acid motif. If one of the two criteria is not fulfilled, the antibody will not detect the phosphorylation site. Since the amino acid sequence varies between different phosphorylation sites, certain proteins - though phosphorylated - may not be detected by the antibody. Phosphorylation patterns in a given cell extract may differ when probed with different antibodies due to sequence specificity.

The Phosphothreonine Detection Kit contains 3 different phosphotyrosine specific monoclonal antibodies.

Do not use Milk or Casein based blocking and incubation buffers.

clone	isotype	order number
1E11	lgG1	0024-025
4D11	IgM	0025-025
14B3	lgG1	0026-025

Postive control

This product contains the following positive control for immunoblot applications: #0901-PSRECO phosphoproteins from rabbit muscle BIOMOL GmbH Waidmannstr. 35 22769 Hamburg info@biomol.de www.biomol.de Phone: +49-40-8532600 or 0800-2466651 (D) Fax: +49-40-85326022 or 0800-2466652 (D)



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Mouse Monoclonal Antibody to

Pho	osphothre	onine				
cloi	ne 1E11					
Orde	r No.:	0024-025/P	FHR-1E11		Ŏ	
Size (µ	g)	25			ŠŠ	
Lot No		0024S			8	03/160307F
Isotype	Species Reactivity		Mol. Weight	Ref.Cell Line	Epitope	Immunogen
lgG1	human, mouse, i dog	at, WB, ELISA, IP	pattern			phosphothreonine conjugated to KLH
Backgrour	nd and Specificity:					Related Products
Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the cell nucleus. Phosphorylated epitopes may serve as docking sites for the assembly of protein complexes or may alter the 3-dimensional protein structure thus modulating enzymatic activity or the ability to undergo protein-protein-interactions. Modification of proteins on serine residues is mediated by serine/threonine kinases. Mab PTHR-1E11 recognizes a broad range of threonine-phosphorylated proteins in crude cell extracts, providing a valuable tool for non-radioactive phosphothreonine detection.					mab against Phosphoserine #0018-100/pSer-1C8 #0019-100/pSer-4A3 #0020-100/pSer-4A9 #0021-100/pSer-4H4 #0022-100/pSer-7F12 #0023-100/pSer-16B4 mab against Phosphothreonine #0025-100/pThr-4D11 #0026-100/pThr-14B3	
Purification: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.						
Formulatio		lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.			Ind	
Reconstitu	ition: Re	constitute with 1 m	$I H_2O$ (15 min, R	T).		
Stability:For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 1 week.						
	Av	void repeated freez	ze / thaw cycles	.		
Positive Co	ontrol: #0	901: phosphoserine	e/phosphothreon	nine positive contro	I	
Immunoble	Re blo	ug/ml for HRPO/EC ecommended bloc ocking buffer. O NOT USE MILK (king buffer: BS		I	
Immunopr	ecipitation: us	e at 1 - 10 µg per 1	0 ⁶ pervanadate-	treated A431 cells		
	tochemistry: NI					
ELISA:	-	use at 0.05 µg/ml				
		are supplied for i				

use only. Not for use in humans or laboratory animals.

Mouse Monoclonal Antibody to



BIOMOL GmbH Waidmannstr. 35 22769 Hamburg

info@biomol.de www.biomol.de

biomol



Phosphothreonine

clone 4D11

Orde Size (μ Lot No		2	0025-025/PT 25 0025S	HR-4D11			03/16030)7F
Isotype	Species Rea	ctivity	Applications	Mol. Weight	Ref.Cell Line	Epitope		Immunogen
IgM	human, mou dog	use, rat,	WB, ELISA, IP	pattern				phosphopeptide conjugated to KLH
Backgrou	nd and Specifi	icity:					Related Pro	ducts
extracellula the assemb modulating Modification	Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the cell nucleus. Phosphorylated epitopes may serve as docking sites for the assembly of protein complexes or may alter the 3-dimensional protein structure thus modulating enzymatic activity or the ability to undergo protein-protein-interactions. Modification of proteins on serine residues is mediated by serine/threonine kinases. Mab PTHR-4D11 recognizes a broad range of threonine-phosphorylated proteins in crude cell extracts, providing a valuable tool for non-radioactive phosphothreonine detection.						#0018-100/pSer-10 #0019-100/pSer-4/ #0020-100/pSer-4/ #0021-100/pSer-4ł #0022-100/pSer-7f #0023-100/pSer-16	A3 A9 H4 512 584 Phosphothreonine
Purification:The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.								
Formulation: lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.								
Reconstitu	estitution: Reconstitute with 1 ml H_2O (15 min, RT).							
Stability:		Upon recon:	reconstitution, al stituted antibody aliquots at 37°C	iquote and free can be stored f	ate upon arrival (-2 ze in liquid nitroger rozen at -80°C up t ts may be stored a	n; to 1 year.		

Avoid repeated freeze / thaw cycles. #0901: phosphoserine/phosphothreonine positive control **Positive Control:**

1 µg/ml for HRPO/ECL detection Immunoblotting: Recommended blocking buffer: BSA/Tween 20 based blocking buffer. DO NOT USE MILK OR CASEIN FOR BLOCKING!

Immunoprecipitation:	use at 1 - 10 μ g per 10 ⁶ pervanadate-treated A431 cells
Immunocytochemistry:	ND
ELISA:	use at 0.05 µg/ml

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.





Mouse Monoclonal Antibody to

	g)	0026-025/PT 25 0026S	⁻ HR-14B3			03/160307F
Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
lgG1	human, mouse, ra dog	at, WB, ELISA, IP	pattern			phosphopeptide conjugated to KLH
Backgrour	nd and Specificity:					Related Products
 Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the cell nucleus. Phosphorylated epitopes may serve as docking sites for the assembly of protein complexes or may alter the 3-dimensional protein structure thus modulating enzymatic activity or the ability to undergo protein-protein-interactions. Modification of proteins on serine residues is mediated by serine/threonine kinases. Mab PTHR-14B3 recognizes a broad range of threonine-phosphorylated proteins in crude cell extracts, providing a valuable tool for non-radioactive phosphothreonine detection. 					g sites for Is	mab against Phosphoserine #0018-100/pSer-1C8 #0019-100/pSer-4A3 #0020-100/pSer-4A9 #0021-100/pSer-4H4 #0022-100/pSer-7F12 #0023-100/pSer-16B4 mab against Phosphothreonine #0024-100/pThr-1E11 #0025-100/pThr-4D11
Purification: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.						
Formulatio	Formulation: Iyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.				nd	
Reconstitu	Reconstitution: Reconstitute with 1 ml H_2O (15 min, RT).					
Stability:	Upo rec Tha 1 w	on reconstitution, a onstituted antibody	liquote and free can be stored f . Thawed aliquo	ate upon arrival (-2 ze in liquid nitrogen rozen at -80°C up to ots may be stored at	; o 1 year.	
Positive Co	ontrol: #09	01: phosphoserine	/phosphothreon	ine positive control		
Immunoble	otting: 1 μ <u>Re</u> blo	g/ml for HRPO/EC	L detection king buffer: BS	A/Tween 20 based		
-	-	e at 1 - 10 µg per 1	0 ⁶ pervanadate-	treated A431 cells		
-	tochemistry: ND					
ELISA:	All products	at 0.05 µg/ml are supplied for r t for use in humar				





pSer / pThr Mc Marker	olecular Weight	
Order No.:	0901/PSERCO	
Lot:	0901	
Size	20 Blots	03/100407F
Formulation	The pSer/pThr molecular weight marker phosphoproteins isolated by Fe3+/IDA - Proteins are lyophilized from PBS/NaF/P phenolblue and Na - azide. After reconst 0.09% Na-azide.	affinity chromatography. 'EG/Sucrose/ Bromo-

StabilityReconstitute by addition of 200 μ l H2O. After complete solubilization
add 200 μ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C
for 5 min.

Aliquote and store frozen. Avoid repeated freeze/thaw cycles.

ApplicationThe pSer/pThr molecular weight marker is recommended for
immunoblot applications. Use 20µl molecular weight marker per lane.Note: Use BSA based blot incubation buffers. Milk, Casein and Blotto.

Note: Use BSA based blot incubation buffers. Milk, Casein and Blotto might interfere with antibody - antigen interaction.