

#### www.nanotools.de

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03/150120F

# **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 threonine residues is mediated by protein kinases. Threonine phosphorylation may alter the biological activity.

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 Phosphoserine Detection Kit contains 3 different phosphothreonine specific monoclonal antibodies.

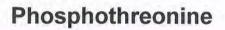
Do not use Milk or Casein based blocking and incubation buffers.

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-PSERCO phosphoproteins from rabbit muscle

## Mouse Monoclonal Antibody to



clone 1E11

Order No.:		0024-025/P1	THR-1E11		38	Š	
Size (µ	g)	25			- 88	8	
Lot No.		0024S			88	03/1603	807F
Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	•	Immunogen
gG1	human, mouse, rat, dog	WB, ELISA, IP	pattern				phosphothreonine conjugated to KLH
ackgroun	nd and Specificity:		-			Related Pr	oducts
extracellula he assemb nodulating Aodification	ation and dephosphoryl r signals to the cell nucl ly of protein complexes enzymatic activity or the of proteins on serine m -1E11 recognizes a bro oviding a valuable tool f	leus. Phosphoryl or may alter the e ability to under esidues is media ad range of three	ated epitopes m 3-dimensional j go protein-prote ted by serine/th onine-phosphory	nay serve as docki protein structure th in-interactions. reonine kinases. ylated proteins in c	ng sites for nus	#0018-100/pSer- #0019-100/pSer- #0020-100/pSer- #0021-100/pSer- #0022-100/pSer- #0023-100/pSer-	4A3 4A9 4H4 7F12 16B4 <b>Phosphothreonine</b> 4D11
urification	super	ntibody was puri natant by subsec sion chromatogra	quent thiophilic	-free cell culture adsorption and siz	e		
ormulatio	n: lyoph Sucro		x PBS / 0.09 %	% Na-azide / PEG a	and		
Reconstitut	tion: Reco	nstitute with 1 ml	H <sub>2</sub> O (15 min, R	T).			
Stability:	Upon recon	reconstitution, al stituted antibody aliquots at 37°C	iquote and free can be stored f	tate upon arrival (- ze in liquid nitroge frozen at -80°C up ots may be stored	n; to 1 year.		
	Avoid	I repeated freez	e / thaw cycles	i.			
ositive Co	ntrol: #0901	: phosphoserine	/phosphothreor	ine positive contro	bl		
mmunoblo	Reco blocki	ml for HRPO/ECI mmended block ing buffer. OT USE MILK C	<u>king buffer:</u> BS	A/Tween 20 base R BLOCKING!	d		
mmunopre		t 1 - 10 µg per 10	) <sup>6</sup> pervanadate-	treated A431 cells			
	ochemistry: ND	0.05					
LISA:	use at	: 0.05 µg/ml					

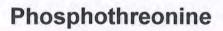
All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.

and the loss of the





## Mouse Monoclonal Antibody to



clone 4D11

Size (µg	Order No.:		0025-025/PTHR-4D11						
			25			8	8		
Lot No.:	:		0025S			Š2	03/160307F		
Isotype	Species	Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen		
-	human, dog	mouse, rat,	WB, ELISA, IP	pattern			phosphopeptide conjugated to KLH		
Background	d and Sp	ecificity:					Related Products		
extracellular the assembly modulating e Modification Mab PTHR-4	<ul> <li>signals to</li> <li>ly of protei</li> <li>enzymatic</li> <li>of protein</li> <li>4D11 record</li> </ul>	the cell nuc n complexes activity or th s on serine r	leus. Phosphoryl or may alter the e ability to under esidues is media	ated epitopes m 3-dimensional p go protein-prote ted by serine/th onine-phosphory	reonine kinases. /lated proteins in o	ng sites for nus	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		
Purification	:	supe	antibody was puri rnatant by subsec sion chromatogra	quent thiophilic a	-free cell culture adsorption and siz	:e	#0026-100/pThr-14B3		
Formulation	ormulation: lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.								
Reconstitution: Reconstitute with 1 ml $H_2O$ (15 min, RT).									
Stability:		Upon recor	ong-term storage, reconstitution, a istituted antibody aliquots at 37°C	iquote and free can be stored f					
		1 Wet	SIX.						
			d repeated freez	e / thaw cycles	6.1				
Positive Cor	ntrol:	Avoi	d repeated freez		i. ine positive contro	ol			
Positive Cor Immunoblot		<b>Ανοί</b> α #090 1 μg/ <u>Reco</u> block	d repeated freez 1: phosphoserine ml for HRPO/EC	/phosphothreor _ detection <b>king buffer:</b> BS	ine positive contro A/Tween 20 base				
	tting:	Avoid #090 1 μg/ <u>Reco</u> block DO Ν	d repeated freez 1: phosphoserine ml for HRPO/EC <u>ommended bloch</u> ing buffer. IOT USE MILK C	/phosphothreor _ detection king buffer: BS OR CASEIN FO	ine positive contro A/Tween 20 base	d			
Immunoblot	tting: cipitation	Avoid #090 1 μg/ <u>Recc</u> block DO N	d repeated freez 1: phosphoserine ml for HRPO/EC <u>ommended bloch</u> ing buffer. IOT USE MILK C	/phosphothreor _ detection king buffer: BS OR CASEIN FO	iine positive contro A/Tween 20 base R BLOCKING!	d			

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fax:

+49-7641-455 671

# Phosphothreonine

clone 14B3

Ordel	No.:	0026-025/P	THR-14B3		00	0
Size (µg	g)	25			-88	No.
Lot No.	:	0026S			88	03/160307F
sotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
gG1	human, mouse, rat dog	, WB, ELISA, IP	pattern			phosphopeptide conjugated to KLH
ackgroun	d and Specificity:					Related Products
ktracellular e assemb odulating odification ab PTHR-	ation and dephosphory r signals to the cell nuc ly of protein complexes enzymatic activity or th of proteins on serine <b>:14B3</b> recognizes a bro oviding a valuable tool	cleus. Phosphoryl s or may alter the ne ability to under residues is media bad range of three	ated epitopes m 3-dimensional j go protein-prote ted by serine/th onine-phosphory	nay serve as docki protein structure th in-interactions. reonine kinases. ylated proteins in o	ng sites for nus	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
urification	supe	antibody was pur rnatant by subse ision chromatogra	quent thiophilic	n-free cell culture adsorption and siz	e	#0020-100p111-4011
ormulation	n: lyoph Sucr		2 x PBS / 0.09 %	6 Na-azide / PEG	and	
econstitut	tion: Reco	onstitute with 1 ml	I H <sub>2</sub> O (15 min, R	T).		
tability:	ability: 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.					
	Avoi	d repeated freez	e / thaw cycles	3.		
ositive Co	ntrol: #090	1: phosphoserine	/phosphothreor	nine positive contro	ol	
nmunoblo	Rece	Iml for HRPO/EC ommended block king buffer. NOT USE MILK C	king buffer: BS	A/Tween 20 base R BLOCKING!	d	
nmunopre		at 1 - 10 µg per 10	0 <sup>e</sup> pervanadate-	treated A431 cells	igo - 1	
nmunocyt	ochemistry: ND					
	use a	at 0.05 µg/ml				
LISA:						

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