

Phospho-ATF-2 (Thr71)/ATF-7 (Thr53) (E4A5G) XP[®] Rabbit mAb



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For Research Use Only Not for Use in Diagnostic Procedures

Applications: W, IP, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 65, 75	Source/Isotype: Rabbit IgG	UniProt ID: #P17544, #P15336	Entrez-Gene Id: 11016, 1386
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemist			Dilution 1:1000 1:100 1:400 - 1:160	0
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		Phospho-ATF-2 (Thr71)/ATF-7 (Thr53) (E4A5G) XP [®] Rabbit mAb detects endogenous levels of ATF-2 and ATF-7 only when phosphorylated at threonine 71 and threonine 53, respectively. It recognizes Thr69/Thr71 dually phosphorylated ATF-2, Thr51/Thr53 dually phosphorylated ATF-7, Thr71 singly phosphorylated ATF-2, and Thr53 singly phosphorylated ATF-7 equally well.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr71 of human ATF-2 protein.				
Background		and is a member of the viral oncoproteins and signaling pathways (2 cytokines, and UV irral ATF-2 by phosphorylate ATF-2 aresult in the loss of streduce the ability of EATF-7 is another mem	ne ATF/CREB family of cellular tumor sup -4). Various forms of diation, stimulate the tion of Thr69 and The these sites in vitraress-induced transcand Rb to stimulater of the ATF/CREB	of leucine zipper prote pressors and is a targe feellular stress, includ the transcriptional activated in 2-4). Both SAPK as and in cells transfect ription by ATF-2 (2-4). I ate gene expression vis family of leucine zipp	th AP-1 and CRE DNA refins (1). ATF-2 interacts at of the SAPK/JNK and ing genotoxic agents, rity of ATF-2. Cellular stand p38 MAPK have been with ATF-2. Mutation addition, mutations is ATF-2 (2). Similar (2) can be phosphorylated.	with a variety of p38 MAP kinase inflammatory ress activates en shown to ns of these sites at these sites ly, Thr51 and
Background References		1. Abdel-Hafiz, H.A. et al. (1992) <i>Mol Endocrinol</i> 6, 2079-89. 2. Gupta, S. et al. (1995) <i>Science</i> 267, 389-93. 3. van Dam, H. et al. (1995) <i>EMBO J</i> 14, 1798-811. 4. Livingstone, C. et al. (1995) <i>EMBO J</i> 14, 1785-97. 5. Peters, C.S. et al. (2001) <i>J Biol Chem</i> 276, 13718-26. 6. Camuzeaux, B. et al. (2008) <i>J Mol Biol</i> 384, 980-91. 7. Maekawa, T. et al. (2010) <i>EMBO J</i> 29, 196-208.				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one appro	ved application (e.g., w	estern blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				

Applications Key

 $\textbf{W:} \ \textbf{Western Blotting IP:} \ \textbf{Immunoprecipitation IHC-P:} \ \textbf{Immunohistochemistry (Paraffin)}$

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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