EGR1 (44D5) Rabbit mAb



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Applications: Re V, IP, IF-IC, FC-FP, ChIP, ChIP-seq	eactivity: H M R	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #P18146	Entrez-Gene Id 1958
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μ l of antibody and 10 μ g of chromatin (approximately 4 10 cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.				
		ApplicationWestern BlottingImmunoprecipitation			Dilution 1:1000 1:50	
		Immunofluorescence Flow Cytometry (Fixed Chromatin IP Chromatin IP-seq		istry)) - 1:6400 - 1:1600
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #54070.				
Specificity/Sensitiv	ity	EGR1 (44D5) Rabbit mAb detects endogenous levels of total EG			protein.	
Species predicted to based on 100% sequent homology	o react uence	Bovine				
Source / Purificatio	n	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino terminus of the sequence of human EGR1.				
Background		EGR family members are transcriptional factors that contain three repetitive zinc finger DNA binding domains which bind to EGR response elements (ER) to regulate target gene expression (1). The expression of EGR family members is induced by growth factors, with EGR1 expression being induced by NGF (1,2). Increased EGR1 expression activates transcription of other signaling molecules, including CDK5 and tyrosine hydroxylase, and exerts long term effects on neural cell growth and differentiation (2,3).				
Background Refere	nces	1. O'Donovan, K.J. et al. (1999) <i>Trends Neurosci.</i> 22, 167-173. 2. Harada, T. et al. (2001) <i>Nat. Cell Biol.</i> 3, 453-459. 3. Papanikolaou, N.A. and Sabban, E.L. (2000) <i>J. Biol. Chem.</i> 275, 26683-26689.				
Species Reactivity		Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffe	r	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq				
Cross-Reactivity Ke	y	H: Human M: Mouse R: Rat				
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