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## EGR1 (44D5) Rabbit mAb



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Source/Isotype: Applications: Reactivity: Sensitivity: MW (kDa): **UniProt ID:** Entrez-Gene Id: WB, IP, IF-IC, FC-FP,  $\mathsf{H}\,\mathsf{M}\,\mathsf{R}$ Endogenous 75 Rabbit IgG #P18146 1958 ChIP, ChIP-seq For optimal ChIP and ChIP-seg results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x **Product Usage** Information 10<sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP<sup>®</sup> Enzymatic Chromatin IP Kits. Dilution Application Western Blotting 1:1000 1:50 Immunoprecipitation Immunofluorescence (Immunocytochemistry) 1:1600 - 1:6400 Flow Cytometry (Fixed/Permeabilized) 1:400 - 1:1600 Chromatin IP 1:50 Chromatin IP-seq 1:50 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than **Storage** 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 / Sensitivity EGR1 (44D5) Rabbit mAb detects endogenous levels of total EGR1 protein. Species predicted to **Bovine** react based on 100% sequence homology: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the Source / Purification 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 References** 1. O'Donovan, K.J. et al. (1999) Trends Neurosci. 22, 167-173. 2. Harada, T. et al. (2001) Nat. Cell Biol. 3, 453-459. 3. Papanikolaou, N.A. and Sabban, E.L. (2000) J. Biol. Chem. 275, 26683-26689.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, Western Blot Buffer

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) **Applications Key** 

FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Trademarks and Patents

**Limited Uses** 

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