

Applications: W, IP, IF-F, IF-IC, ChIP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #P18146	Entrez-Gene ID: 1958
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For optimal ChIP results, use 10 μ l of antibody and 10 μ g of chromatin (approximately 4×10^6 cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

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. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #83520.

EGR1 (15F7) Rabbit mAb detects endogenous levels of total EGR1 protein.

Bovine

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of the sequence of human EGR1.

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).

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).

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.

W: Western Blotting **IP:** Immunoprecipitation **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry) **ChIP:** Chromatin IP

H: Human **M:** Mouse **R:** Rat

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