

# EGR1 Blocking Peptide



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**For Research Use Only. Not For Use In Diagnostic Procedures.**

**Description:** This peptide is used to block EGR1 rabbit (44D5) Rabbit mAb #4154 reactivity.

**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).

**Quality Control:** The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry. The peptide blocks EGR1 (44DS) Rabbit mAb #4154 by peptide dot blot.

**Directions for Use:** Use as a blocking reagent to evaluate the specificity of antibody reactivity in peptide dot blot protocols. Recommended antibody dilutions can be found on the product data sheet.

**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.

**Storage:** Supplied in 20 mM potassium phosphate (pH 7.0), 50 mM NaCl, 0.1 mM EDTA, 1 mg/ml BSA and 5% glycerol. 1% DMSO Store at -20°C.