

#2559 Store at -20°C

EGR3 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 50	Source: Rabbit	UniProt ID: #Q06889	Entrez-Gene Id: 1960
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	EGR3 Antibody recognizes endogenous levels of total EGR3 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe160 of human EGR3 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Early growth response 3 (EGR3) is a zinc finger transcription factor and one of four members of the early growth response family (1). Members of this family are basally expressed in the brain (2) and are immediate early response genes that are important for the induction of cellular programs of differentiation, proliferation, and cell death in response to environmental stimuli (1). EGR3 plays important roles in cellular growth and neuronal development (2) and an essential role in learning and memory processing of both short- and long-term hippocampus-dependent memory; it also mediates adaptation to stress and novelty (3). Research studies show that a lack of EGR3 results in abnormal neuronal and T cell development (4).	
Background References	<ol style="list-style-type: none"> 1. Kumbrink, J. et al. (2010) <i>J Cell Biochem</i> 111, 207-17. 2. Kim, S.H. et al. (2010) <i>Am J Med Genet B Neuropsychiatr Genet</i> 153B, 1355-60. 3. Zhang, R. et al. (2012) <i>PLoS One</i> 7, e30237. 4. Suehiro, J. et al. (2010) <i>Blood</i> 115, 2520-32. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster 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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