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Egr1 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11043

Product Information

Application	WB, IHC
Primary Accession	P08046
Other Accession	NM_007913, NP_031939
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine, Sheep
Predicted	Human, Mouse, Rat, Pig, Chicken, Bovine, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56590

Additional Information

Gene ID	13653
Alias Symbol	A530045N19Rik, ETR103, Egr-1, Krox-1, Krox-24, Krox24, NGF1-A, NGFI-A, NGFIA, TIS8, Zenk, Zfp-6, Zif268, egr
Other Names	Early growth response protein 1, EGR-1, Nerve growth factor-induced protein A, NGFI-A, Transcription factor Zif268, Zinc finger protein Krox-24, Egr1, Egr-1, Krox-24
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Egr1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Egr1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Egr1
Synonyms	Egr-1, Krox-24 {ECO:0000303|PubMed:25110
Function	Transcriptional regulator (PubMed: 15958557, PubMed:8336701, PubMed:8703054). Recognizes and binds to the DNA sequence 5'-GCG(T/G)GGGCG-3'(EGR-site) in the promoter region of target genes (PubMed:15958557, PubMed:2028256, PubMed:8703054, PubMed:8939742). Binds double-stranded target DNA, irrespective of the cytosine methylation status (By similarity). Regulates the transcription of numerous target genes,

and thereby plays an important role in regulating the response to growth factors, DNA damage, and ischemia (PubMed:11100120, PubMed:15958557). Plays a role in the regulation of cell survival, proliferation and cell death (PubMed:15265859, PubMed:15958557). Activates expression of p53/TP53 and TGFB1, and thereby helps prevent tumor formation (PubMed:15958557). Required for normal progress through mitosis and normal proliferation of hepatocytes after partial hepatectomy (PubMed:15265859). Mediates responses to ischemia and hypoxia; regulates the expression of proteins such as IL1B and CXCL2 that are involved in inflammatory processes and development of tissue damage after ischemia (PubMed:11100120). Regulates biosynthesis of luteinizing hormone (LHB) in the pituitary (PubMed:8703054). Regulates the amplitude of the expression rhythms of clock genes: BMAL1, PER2 and NR1D1 in the liver via the activation of PER1 (clock repressor) transcription (PubMed:26471974). Regulates the rhythmic expression of core-clock gene BMAL1 in the suprachiasmatic nucleus (SCN) (PubMed:29138967).

Cellular Location

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:P18146}

Tissue Location

Detected in lung vasculature and in mononuclear phagocytes (PubMed:11100120). Detected in liver (at protein level) (PubMed:15265859). Expressed in the liver in a circadian manner (PubMed:26471974).

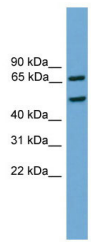
Images



Sample Type : Frog brain
Primary Antibody Dilution : 1:500
Secondary Antibody : Biotinylated goat anti-rabbit
Secondary Antibody Dilution : 1:200 Color/Signal
Descriptions : Black: EGR1
Gene Name : Egr1 a Submitted by : Eva Fischer, Colorado State University



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WB Suggested Anti-Egr1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Mouse Heart

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.