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Egr1 Antibody

Rabbit mAb
Catalog # AP91607

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P18146
Reactivity	Human
Clonality	Monoclonal
Other Names	TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268; EGR1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	57507

Additional Information

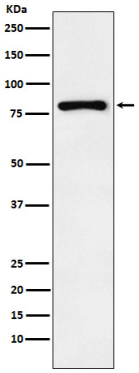
Dilution	WB 1:10000~1:50000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Egr1
Description	Transcriptional regulator. Recognizes and binds to the DNA sequence 5'-CGCCCCCGC-3'(EGR-site). Activates the transcription of target genes whose products are required for mitogenesis and differentiation.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	EGR1
Synonyms	KROX24, ZNF225 {ECO:0000303|PubMed:21103
Function	Transcriptional regulator (PubMed: 20121949). Recognizes and binds to the DNA sequence 5'-GCG(T/G)GGGCG-3'(EGR-site) in the promoter region of target genes (By similarity). Binds double-stranded target DNA, irrespective of the cytosine methylation status (PubMed:25258363, PubMed:25999311). Regulates the transcription of numerous target genes, and thereby plays an important role in regulating the response to growth factors, DNA damage, and ischemia. Plays a role in the regulation of cell survival, proliferation and cell death. Activates expression of p53/TP53 and TGFB1, and thereby helps prevent tumor formation. Required for normal progress through mitosis and normal proliferation of hepatocytes after partial hepatectomy. 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. Regulates biosynthesis of luteinizing hormone (LHB) in the pituitary (By similarity). 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. Regulates the rhythmic expression of core-clock gene BMAL1 in the suprachiasmatic nucleus (SCN) (By similarity).
Cellular Location	Nucleus. Cytoplasm
Tissue Location	Detected in neutrophils (at protein level).

Images



Western blot analysis of Egr1 expression in 293T cell lysate treated with 20% FBS.