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# EGR1 Antibody (N-term) Blocking Peptide
**Synthetic peptide**
**Catalog # BP2904a**

## Specification

### EGR1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P18146

### EGR1 Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID** 1958

**Other Names**
Early growth response protein 1, EGR-1, AT225, Nerve growth factor-induced protein A, NGFI-A, Transcription factor ETR103, Transcription factor Zif268, Zinc finger protein 225, Zinc finger protein Krox-24, EGR1, KROX24, ZNF225

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/products/AP2904a>AP2904a</a> was selected from the N-term region of human EGR1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### EGR1 Antibody (N-term) Blocking Peptide - Protein Information

**Name** EGR1

**Synonyms** KROX24, ZNF225 {ECO:0000303|PubMed:21103

**Function**
Transcriptional regulator (PubMed:<a href="http://www.uniprot.org/citations/20121949" target="_blank">20121949</a>). 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:<a href="http://www.uniprot.org/citations/25258363" target="_blank">25258363</a>, PubMed:<a href="http://www.uniprot.org/citations/25999311" target="_blank">25999311</a>). 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).

## EGR1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

## EGR1 Antibody (N-term) Blocking Peptide - Images

## EGR1 Antibody (N-term) Blocking Peptide - Background

EGR1 belongs to the EGR family of C2H2-type zinc-finger proteins. It is a nuclear protein and functions as a transcriptional regulator. The products of target genes it activates are required for differentitation and mitogenesis.

## EGR1 Antibody (N-term) Blocking Peptide - References

Chan,I.H., et.al., Clin. Chim. Acta 411 (1-2), 67-71 (2010)