

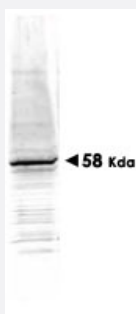
# EGR1 polyclonal antibody

Catalog # PAB10007

Size 100 ug

## Applications

### Western Blot (Cell lysate)



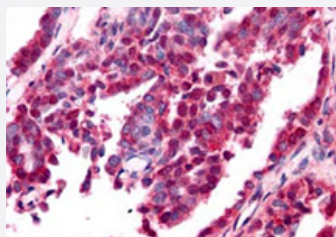
Western blot using EGR1 polyclonal antibody (Cat # PAB10007) shows detection of a predominant band at ~58 KDa corresponding to EGR1 present in mouse embryonic fibroblast whole cell lysate (arrowhead).

Approximately 35 ug of lysate was separated by 4-20% SDS-PAGE and transferred onto nitrocellulose.

After blocking the membrane was probed with the primary antibody diluted to 1:1,500.

Reaction occurred 2h at room temperature followed by washes and reaction with a 1 : 10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature.

### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



Immunohistochemistry of EGR1 polyclonal antibody (Cat # PAB10007) was used at a 10 ug/mL to detect nuclear and cytoplasmic signal with low background staining in a variety of tissues including multi-human, multi-brain and multi-cancer slides.

Within the multi-tumor block, the antibody showed variable levels of nuclear and cytoplasmic staining between individual tumors, with some tumors showing moderate staining.

This image shows EGR1 staining of human ovarian carcinoma. Tissue was formalin-fixed and paraffin embedded.

Personal Communication, Tina Roush, Life Span Biosciences, Seattle, WA.

## Specification

### Product Description

Rabbit polyclonal antibody raised against synthetic peptide of EGR1.

<b>Immunogen</b>	A synthetic peptide corresponding to amino acids 94-108 of human EGR1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Form</b>	Liquid
<b>Quality Control Testing</b>	Antibody Reactive Against Synthetic Peptide.
<b>Recommend Usage</b>	ELISA (1:4000-1:16000) Western Blot (1:500-1:3000) Immunohistochemistry (2-20 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 20 mM KH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — EGR1

Entrez GeneID	<a href="#">1958</a>
Protein Accession#	<a href="#">P18146</a>
Gene Name	EGR1
Gene Alias	AT225, G0S30, KROX-24, NGFI-A, TIS8, ZIF-268, ZNF225
Gene Description	early growth response 1
Omim ID	<a href="#">128990</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	The protein encoded by this gene 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 differentiation and mitogenesis. Studies suggest this is a cancer suppressor gene. [provided by RefSeq]
Other Designations	early growth response protein 1 nerve growth factor-induced protein A transcription factor ETR103 zinc finger protein 225

## Publication Reference

- [A gene coding for a zinc finger protein is induced during 12-O-tetradecanoylphorbol-13-acetate-stimulated HL-60 cell differentiation.](#)  
Shimizu N, Ohta M, Fujiwara C, Sagara J, Mochizuki N, Oda T, Utiyama H.  
Journal of Biochemistry 1992 Feb; 111(2):272.
- [cDNA sequence of the human cellular early growth response gene Egr-1.](#)  
Suggs SV, Katzowitz JL, Tsai-Morris C, Sukhatme VP.  
Nucleic Acids Research 1990 Jul; 18(14):4283.
- [Expression of a zinc finger gene in HTLV-I- and HTLV-II-transformed cells.](#)  
Wright JJ, Gunter KC, Mitsuya H, Irving SG, Kelly K, Siebenlist U.  
Science 1990 May; 248(4955):588.

## Pathway

- [Prion diseases](#)

## Disease

- [Asthma](#)
- [Genetic Predisposition to Disease](#)
- [Myopia](#)
- [Rhinitis](#)
- [Schizophrenia](#)