

For Research Use Only

# EGR1 Polyclonal antibody

Catalog Number: 31098-1-AP



## Basic Information

<b>Catalog Number:</b> 31098-1-AP	<b>GenBank Accession Number:</b> BC073983	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 1958	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P18146	
<b>Isotype:</b> IgG	<b>Full Name:</b> early growth response 1	
<b>Immunogen Catalog Number:</b> AG33440	<b>Calculated MW:</b> 543 aa, 58 kDa	
	<b>Observed MW:</b> 70-80 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : A549 cells, HeLa cells, Jurkat cells
<b>Species Specificity:</b> Human	

## Background Information

EGR1, also named as Early growth response protein 1, is a 543 amino acid protein, which belongs to the EGR C2H2-type zinc-finger protein family. EGR1 as a transcriptional regulator recognizes and binds to the DNA sequence 5'-GCCG(T/G)GGGCG-3'(EGR-site) in the promoter region of target genes and binds double-stranded target DNA, irrespective of the cytosine methylation status. EGR1 regulates the transcription of numerous target genes, and thereby plays an important role in regulating the response to growth factors, DNA damage, and ischemia. EGR1 activates expression of p53/TP53 and TGFβ1, and thereby helps prevent tumor formation and plays a role in the regulation of cell survival, proliferation and cell death. Egr1 is suggested to be a 55-kDa protein according to the translation of its coding sequence. Analysis of cytoplasmic and nuclear fractions of normal and irradiated native CNS tissue by Western blotting revealed a 110-kDa band for Egr1 localized in the cytoplasm and a 75-kDa version for the nuclear Egr1(PMID: 17497096)

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

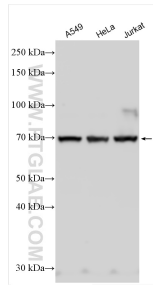
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31098-1-AP (EGR1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.