

**bs-1076R**

**[ Primary Antibody ]**

## Egr1 Rabbit pAb

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### DATASHEET

**Host:** Rabbit

**Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 1958

**SWISS:** P18146

**Target:** Egr1

**Immunogen:** KLH conjugated synthetic peptide derived from human Egr-1: 401-500/453.

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** 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].

**Applications:** WB (1:500-2000)

**IHC-P** (1:100-500)

**IHC-F** (1:100-500)

**IF** (1:100-500)

**Flow-Cyt** (2ug/test)

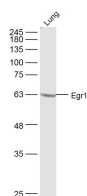
**ICC/IF** (1:100)

**Reactivity:** Human, Mouse, Rat

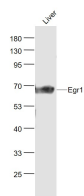
**Predicted MW.:** 60 kDa

**Subcellular Location:** Nucleus

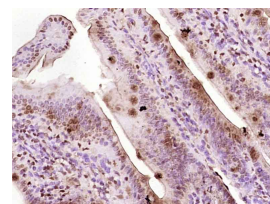
### VALIDATION IMAGES



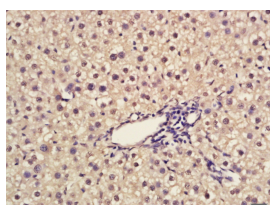
Sample: Lung (Mouse) Lysate at 40 ug Primary: Anti-Egr1 (bs-1076R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD  
Observed band size: 60 kD



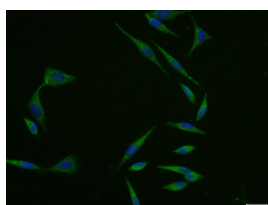
Sample: Liver (Rat) Lysate at 40 ug Primary: Anti-Egr1 (bs-1076R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 60 kD



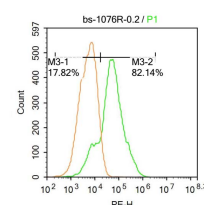
Paraformaldehyde-fixed, paraffin embedded (Mouse small intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Egr1) Polyclonal Antibody, Unconjugated (bs-1076R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Egr1 Polyclonal Antibody, Unconjugated (bs-1076R) 1:200, overnight at 4°C,



A431 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Egr1) polyclonal Antibody, Unconjugated (bs-1076R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

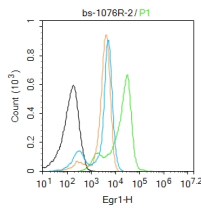


U-937 cells were fixed with 4% PFA for 10min at room temperature, permeabilized with 90% ice-cold methanol for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with Egr1 Antibody (bs-1076R) at 1:500 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by

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followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).



Blank control:K562. Primary Antibody (green line): Rabbit Anti-Egr1 antibody (bs-1076R) Dilution: 2µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## — SELECTED CITATIONS —

- **[IF=6.832]** Hou, Yonghui. et al. Nonwoven-based gelatin/polycaprolactone membrane loaded with ERK inhibitor U0126 for treatment of tendon defects. Stem Cell Res Ther. 2022 Dec;13(1):1-11 IHC ;Rat. 35012661
- **[IF=2.8]** Song Wang. et al. EGR-1 Contributes to Pulmonary Edema by Regulating the Epithelial Sodium Channel in Lipopolysaccharide-Induced Acute Lung Injury. IMMUNOL INVEST. 2023;52(7):925-939 WB ;Human. 37732637
- **[IF=2.209]** Fan, Haobo. et al. Expression of early growth responsive gene-1 in the visual cortex of monocular form deprivation amblyopic kittens. BMC Ophthalmol. 2021 Dec;21(1):1-8 IHC ;Kittens. 34781927
- **[IF=2.4]** Yang Du. et al. LncRNA HOTAIR regulates the expression of MRP1 gene through the mir-6807-5p/Egr1 axis to affect the multidrug resistance of lung cancer cells. GENE. 2025 Mar;940:149216 WB ;Human. 39756551