

# Anti-EGR1 Antibody [JE57-62] - BSA and Azide free

## HA752019



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat, Cynomolgus monkey, Pig
<b>Applications:</b>	WB, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 58 kDa.
<b>Clone number:</b>	JE57-62

**Description:** 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.

**Immunogen:** Recombinant protein within human EGR1 aa 1-200.

**Positive control:** THP-1 treated with 100ng/mL LPS for 3 hours cell lysate, human brain tissue, human thyroid carcinoma tissue, mouse brain tissue, rat brain tissue.

**Subcellular location:** Nucleus, Cytoplasm.

**Database links:** SwissProt: P18146 Human | P08046 Mouse | P08154 Rat

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IHC-P</b>	1:200-1:1,000

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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## Images

**Fig1:** Western blot analysis of EGR1 on different lysates with Rabbit anti-EGR1 antibody (HA752019) at 1/1,000 dilution.

Lane 1: THP-1 cell lysate

Lane 2: THP-1 treated with 100ng/mL LPS for 3 hours cell lysate

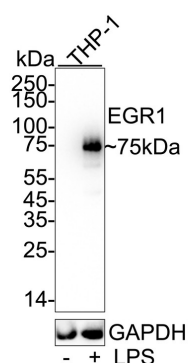
Lysates/proteins at 20 µg/Lane.

Predicted band size: 58 kDa

Observed band size: 75 kDa

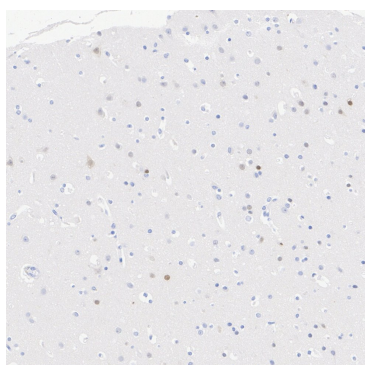
Exposure time: 1 minute; ECL: K1801;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA752019) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Immunohistochemical analysis of paraffin-embedded human brain tissue with Rabbit anti-EGR1 antibody (HA752019) at 1/200 dilution.



The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA752019) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Fig3:** Immunohistochemical analysis of paraffin-embedded human thyroid carcinoma tissue with Rabbit anti-EGR1 antibody (HA752019) at 1/800 dilution.



The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA752019) at 1/800 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

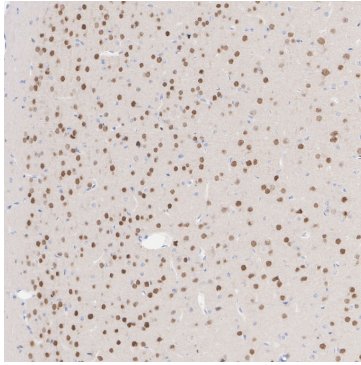
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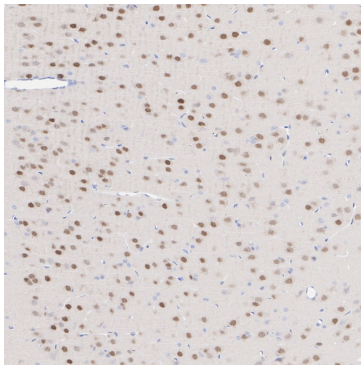
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**Fig4:** Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Rabbit anti-EGR1 antibody (HA752019) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA752019) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig5:** Immunohistochemical analysis of paraffin-embedded rat brain tissue with Rabbit anti-EGR1 antibody (HA752019) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA752019) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Li L. et. al. EGR1 regulates angiogenic and osteoclastogenic factors in prostate cancer and promotes metastasis. *Oncogene*. 2019 Aug
2. Mohtar O. et. al. Egr1 mediates the effect of insulin on leptin transcription in adipocytes. *J Biol Chem*. 2019 Apr

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