A23424

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EGR1 Rabbit mAb

Catalog No.: A23424 Recombinant 1 Publications

Basic Information

Observed MW
75-80kDa/

Calculated MW
58kDa

Category
SMab Recombinant Monoclonal Antibody

Applications
WB,IF/ICC,IP,ELISA,IHC

Cross-Reactivity
Human,Mouse,Rat

CloneNo number
ARC60244

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 differentitation and mitogenesis. Studies suggest this is a cancer suppressor gene.

Recommended Dilutions

WB	1:5000 - 1:20000
IHC-P	1:200-1:800
IF/ICC	1:200 - 1:800
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
1958

Swiss Prot
P18146

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 90-250aa of human EGR1(NP_001955.1).

Synonyms
TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268; EGR1

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Contact

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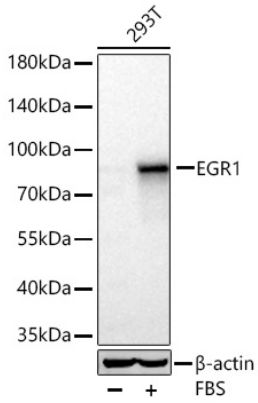
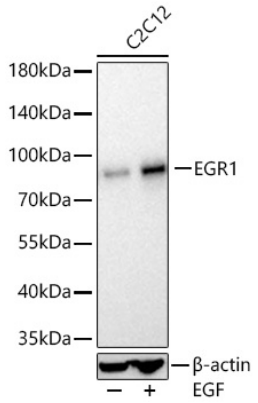
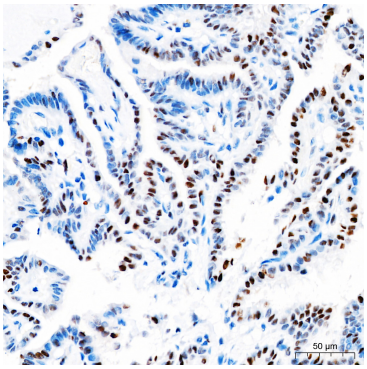
Validation Data



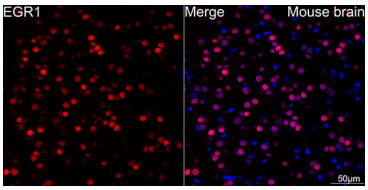
Western blot analysis of lysates from 293T cells using EGR1 Rabbit mAb (A23424) at 1:5000 dilution incubated at room temperature for 1.5 hours. 293T cells were treated by 20% FBS at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



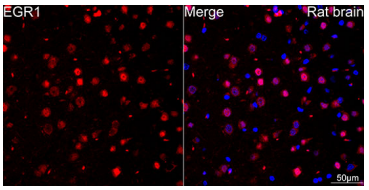
Western blot analysis of lysates from C2C12 cells using EGR1 Rabbit mAb (A23424) at 1:5000 dilution incubated at room temperature for 1.5 hours. C2C12 cells were treated by EGF (100 ng/ml) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using EGR1 Rabbit mAb (A23424) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

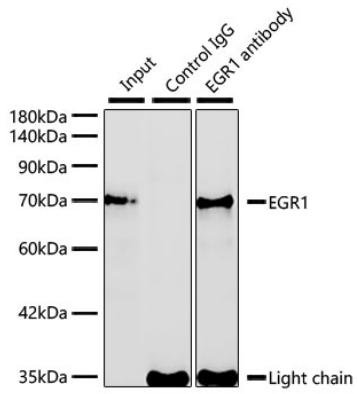


Confocal imaging of paraffin-embedded Mouse brain tissue using EGR1 Rabbit mAb (A23424, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Rat brain tissue using EGR1 Rabbit mAb (A23424, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Validation Data



Imunoprecipitation of EGR1 from 300 µg extracts of 293T cells treated by 20%FBS was performed using 3 µg of EGR1 Rabbit mAb (A23424). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using EGR1 Rabbit mAb (A23424) at a dilution of 1:2000.