

Anti-EGR2 Antibody [JG78-39]

ET7108-57



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, FC
Molecular Wt:	Predicted band size: 50 kDa
Clone number:	JG78-39

Description: The protein encoded by this gene is a transcription factor with three tandem C2H2-type zinc fingers. Binds to two specific DNA sites located in the promoter region of HOXA4. E3 SUMO-protein ligase helping SUMO1 conjugation to its coregulators NAB1 and NAB2, whose sumoylation down-regulates EGR2 own transcriptional activity. Defects in this gene are associated with Charcot-Marie-Tooth disease type 1D (CMT1D), Charcot-Marie-Tooth disease type 4E (CMT4E), and with Dejerine-Sottas syndrome (DSS). Multiple transcript variants encoding two different isoforms have been found for this gene.

Immunogen: Recombinant protein within Human EGR2 aa 2-96 / 476.

Positive control: PC-12 cell lysate, SH-SY5Y cell lysate, SH-SY5Y.

Subcellular location: Nucleus.

Database links: SwissProt: P11161 Human

Recommended Dilutions:

WB	1:500-1:1,000
FC	1:50-1:100

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of EGR2 on different lysates with Rabbit anti-EGR2 antibody (ET7108-57) at 1/500 dilution.

Lane 1: PC-12 cell lysate
Lane 2: SH-SY5Y cell lysate

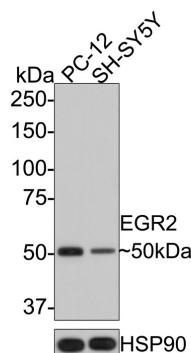
Lysates/proteins at 10 µg/Lane.

Predicted band size: 50 kDa

Observed band size: 50 kDa

Exposure time: 2 minutes;

8% 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 (ET7108-57) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

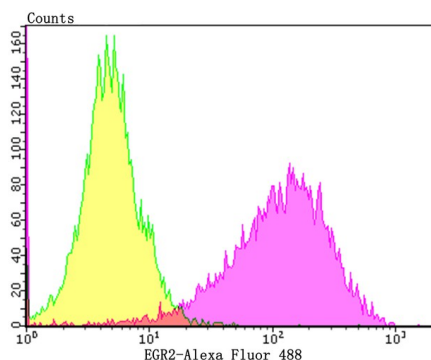


Fig2: Flow cytometric analysis of EGR2 was done on SH-SY5Y cells. The cells were fixed, permeabilized and stained with the primary antibody (ET7108-57, 1/50) (purple). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; yellow).

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

Background References

1. Garcia-Gutierrez P. et al. The transcription factor Krox20 is an E3 ligase that sumoylates its Nab coregulators. EMBO Rep. 12:1018-1023(2011).
2. Funalot B. et al. Homozygous deletion of an EGR2 enhancer in congenital amyelinating neuropathy. Ann. Neurol. 71:719-723(2012).

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