

Anti-EGR2 Antibody (7J609)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Mouse
Conjugation:	Unconjugated
Clone:	7J609
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none">-Positive WB detected in: SY5Y whole cell lysate,U251 whole cell lysate,MCF7 whole cell lysate, K562 whole cell lysate,Mouse Brain tissue lysate,Mouse Brain tissue lysate-All lanes: EGR2 antibody at 1:1000-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution-Predicted band size: 50 kDa-Observed band size: 50 kDa <p>2. Overlay Peak curve showing SH-SY5Y cells stained with TMAH-00381 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C.Control antibody (green line) was rabbit IgG (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.</p>
Application:	ELISA, WB, FCM
Recommended	WB:1:500-1:2000; FCM:1:50-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human EGR2
Antigen Species:	Human
Gene ID:	1959
Uniprot ID:	P11161
Synonyms:	E3 SUMO-protein ligase EGR2;KROX20;AT591;EGR2;Early growth response protein 2;E3 SUMO-protein transferase ERG2;EGR-2;Zinc finger protein Krox-20
Biology Area:	Epigenetics and Nuclear Signaling, Neuroscience

Research Background

Sequence-specific DNA-binding transcription factor. Plays a role in hindbrain segmentation by regulating the

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expression of a subset of homeobox containing genes and in Schwann cell myelination by regulating the expression of genes involved in the formation and maintenance of myelin. Binds to two EGR2-consensus sites EGR2A (5'-CTGTAGGAG-3') and EGR2B (5'-ATGTAGGTG-3') in the HOXB3 enhancer and promotes HOXB3 transcriptional activation. Binds to specific DNA sites located in the promoter region of HOXA4, HOXB2 and ERBB2. Regulates hindbrain segmentation by controlling the expression of Hox genes, such as HOXA4, HOXB3 and HOXB2, and thereby specifying odd and even rhombomeres. Promotes the expression of HOXB3 in the rhombomere r5 in the hindbrain. Regulates myelination in the peripheral nervous system after birth, possibly by regulating the expression of myelin proteins, such as MPZ, and by promoting the differentiation of Schwann cells. Involved in the development of the jaw opener musculature, probably by playing a role in its innervation through trigeminal motor neurons. May play a role in adipogenesis, possibly by regulating the expression of CEBPB. E3 SUMO-protein ligase helping SUMO1 conjugation to its coregulators NAB1 and NAB2, whose sumoylation down-regulates EGR2 transcriptional

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