

🕧 Tel: +1-301-363-4651 🛛 🖂 Email: cusabio@cusabio.com 🬔 Website: www.cusabio.com 🌘

EGR2 Recombinant Monoclonal Antibody

Product Code	CSB-RA196762A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P11161
Immunogen	A synthesized peptide derived from Human EGR2
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, FC; Recommended dilution: WB:1:500-1:2000, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling?Neuroscience
Gene Names	EGR2
Clone No.	27C3

Image



Western Blot

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

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Overlay Peak curve showing SH-SY5Y cells stained with CSB-RA196762A0HU (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 $(1\mu g/1*10^6 cells)$ for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Antirabit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG $(1\mu g/1*10^6 cells)$ used under the same conditions. Acquisition of >10,000 events was performed.

Description

The EGR2 recombinant monoclonal antibody is synthetically generated in vitro, starting with the retrieval of EGR2 antibody genes from B cells obtained from immunoreactive rabbits. These EGR2 antibody genes are then amplified and cloned into appropriate phage vectors, which are subsequently introduced into mammalian cell lines to enable the production of functional antibodies in substantial quantities. Following this, the EGR2 recombinant monoclonal antibody is purified from the culture supernatant of the transfected cell lines through affinity chromatography. It is suitable for a range of applications, including ELISA, WB, and FC, facilitating the accurate detection of human and mouse EGR2 proteins.

EGR2 is a transcription factor that plays a central role in the development, myelination, and maintenance of the peripheral nervous system. Its functions are crucial for proper nerve function, and mutations in the EGR2 gene can lead to neurological disorders such as Charcot-Marie-Tooth disease. Additionally, EGR2 has been implicated in regulating cellular processes in cancer and nerve injury response.