# EGR2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | EGR2, Polyclonal Antibody |
| **Full Product Name** | EGR2 Polyclonal Antibody |
| **Product Gene Name** | anti-EGR2 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Rat |
| **Form/Format** | PBS with 0.02% sodium azide, 50% glycerol, pH 7.3. |
| **Purity/Purification** | Affinity Purification |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 44kDa; 50kDa |
| **OMIM** | 129010 |
| **3D Structure** | ModBase 3D Structure for P11161 |
| **Immunogen** | A synthetic peptide of human EGR2 (NP_000390.2). |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-EGR2 antibody** | Western Blot (WB) |
| **Application Notes for anti-EGR2 antibody** | WB: 1:500-1:2000 |
| **Related Product Information for anti-EGR2 antibody** | The protein encoded by this gene is a transcription factor with three tandem C2H2-type zinc fingers. 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. |
| **Other Notes** | Small volumes of anti-EGR2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for EGR2 purchase** | MBS8569736 is an antibody targeting EGR2. Also known as EGR2 Polyclonal Antibody. Reactive in Rat. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EGR2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 33112654 |
| **NCBI GeneID** | 1959 |
| **NCBI Accession #** | P11161.3 |
| **UniProt Primary Accession #** | P11161 |

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| **UniProt Related Accession #** | P11161 |
| **NCBI Official Full Name** | E3 SUMO-protein ligase EGR2 |
| **NCBI Official Synonym Full Names** | early growth response 2 |
| **NCBI Official Symbol** | EGR2 |
| **NCBI Official Synonym Symbols** | CHN1; AT591; CMT1D; CMT4E; KROX20 |
| **UniProt Protein Name** | E3 SUMO-protein ligase EGR2 |
| **UniProt Synonym Protein Names** | AT591; Early growth response protein 2; EGR-2; Zinc finger protein Krox-20 |
| **Protein Family** | E3 SUMO-protein ligase |
| **UniProt Gene Name** | EGR2 |
| **UniProt Synonym Gene Names** | KROX20; EGR-2 |
| **UniProt Entry Name** | EGR2_HUMAN |
| **NCBI Protein Information** | E3 SUMO-protein ligase EGR2 |
| **UniProt Comments for EGR2** | EGR2: Sequence-specific DNA-binding transcription factor. Binds to two specific DNA sites located in the promoter region of HOXA4. Defects in EGR2 are a cause of congenital hypomyelination neuropathy (CHN). Inheritance can be autosomal dominant or recessive. Recessive CHN is also known as Charcot- Marie-Tooth disease type 4E (CMT4E). CHN is characterized clinically by early onset of hypotonia, areflexia, distal muscle weakness, and very slow nerve conduction velocities. Defects in EGR2 are a cause of Charcot-Marie-Tooth disease type 1D (CMT1D). CMT1D is a form of Charcot- Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1, and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT1 group are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. Defects in EGR2 are a cause of Dejerine-Sottas syndrome (DSS); also known as Dejerine-Sottas neuropathy (DSN) or hereditary motor and sensory neuropathy III (HMSN3). DSS is a severe degenerating neuropathy of the demyelinating Charcot-Marie- Tooth disease category, with onset by age 2 years. DSS is characterized by motor and sensory neuropathy with very slow nerve conduction velocities, increased cerebrospinal fluid protein concentrations, hypertrophic nerve changes, delayed age of walking as well as areflexia. There are both autosomal dominant and autosomal recessive forms of Dejerine-Sottas syndrome. Belongs to the EGR C2H2-type zinc-finger protein family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: DNA-binding; C2H2-type zinc finger protein; EC 6.3.2.-<br><br>Chromosomal Location of Human Ortholog: 10q21.1<br><br>Cellular Component: cytoplasm; nucleus<br><br>Molecular Function: protein binding; ubiquitin protein ligase binding; metal ion binding; chromatin binding; transcription factor activity; ligase activity<br><br>Biological Process: myelination; transcription from RNA polymerase II promoter; fat cell differentiation; facial nerve structural organization; rhombomere 5 formation; positive regulation of transcription, DNA-dependent; motor axon guidance; response to insulin stimulus; peripheral nervous system development; Schwann cell differentiation; rhythmic behavior; protein sumoylation; learning and/or memory; rhombomere 3 formation; positive regulation of transcription from RNA polymerase II promoter; brain development; protein export from nucleus; regulation of ossification; brain segmentation; regulation of neuronal synaptic plasticity; negative regulation of apoptosis<br><br>Disease: Neuropathy, Congenital Hypomyelinating Or Amyelinating, Autosomal Recessive; Hypertrophic Neuropathy Of Dejerine-sottas; Charcot-marie-tooth Disease, Demyelinating, Type 1d |
| **Research Articles on EGR2** | **1.** In Greek Charcot-Marie-Tooth type 1 patients, 3 pathogenic mutations were found (3.5%); two recently reported micromutations in PMP22 3, and one known point mutation in EGR2 |

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