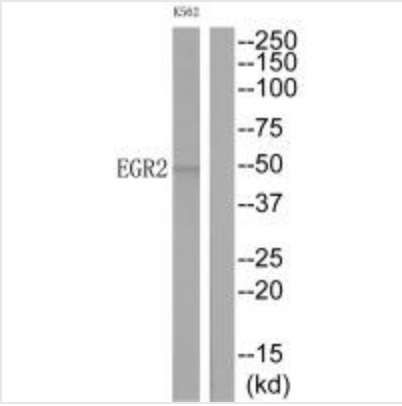
EGR2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EGR2, Polyclonal Antibody
Full Product Name	EGR2 Antibody
Product Gene Name	anti-EGR2 antibody
Product Synonym Names	AT591; CMT1D; CMT4E; DKFZp686J1957; early growth response 2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total EGR2 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	44,970 Da
OMIM	129010
3D Structure	ModBase 3D Structure for P11161
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from C-terminal of human EGR2.
Target Name	EGR2
Product Categories/Family for anti-EGR2 antibody	Total protein Ab
Applications Tested/Suitable for anti-EGR2 antibody	Western Blot (WB)
Application Notes for anti-EGR2 antibody	Western blotting: 1:500~1:3000
Related Product Information for anti-EGR2 antibody	Sequence-specific DNA-binding transcription factor. 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.Joseph L.J., Proc. Natl. Acad. Sci. U.S.A. 85:7164-7168(1988).Warner L.E., Nat. Genet. 18:382-384(1998).Bechtel S., BMC Genomics 8:399-399(2007).
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	MBS9414155 is an antibody targeting EGR2. Also known as EGR2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-EGR2 antibody
Western blot analysis of extracts from K562 cells, using EGR2 antibody.

ADDITIONAL DETAILS

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

NCBI GI #	9845524
NCBI GeneID	1959
NCBI Accession #	NP_000390.2
UniProt Primary Accession #	P11161
UniProt Secondary Accession #	Q68CZ5; Q8IV26; Q9UNA6; B2R724; B3KRD7
UniProt Related Accession #	P11161
GenBank Nucleotide #	NM_000399.3
NCBI Official Full Name	E3 SUMO-protein ligase EGR2 isoform a
NCBI Official Synonym Full Names	early growth response 2
NCBI Official Symbol	EGR2
NCBI Official Synonym Symbols	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
NCBI Summary for EGR2	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. [provided by RefSeq, Oct 2008]

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. Protein type: C2H2-type zinc finger protein; DNA-binding; EC 6.3.2.- Chromosomal Location of Human Ortholog: 10q21.1 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; metal ion binding; ubiquitin protein ligase binding; chromatin binding; transcription factor activity; ligase activity Biological Process: transcription from RNA polymerase II promoter; myelination; fat cell differentiation; facial nerve structural organization; rhombomere 5 formation; positive regulation of transcription, DNA-dependent; motor axon guidance; peripheral nervous system development; response to insulin stimulus; Schwann cell differentiation; rhythmic behavior; learning and/or memory; protein sumoylation; rhombomere 3 formation; positive regulation of transcription from RNA polymerase II promoter; protein export from nucleus; brain development; regulation of ossification; brain segmentation; negative regulation of apoptosis; regulation of neuronal synaptic plasticity 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.** our data suggest that robust CD26 costimulatory signaling induces preferential expression of EGR2 and IL-10 as a potential mechanism for regulating CD26-mediated activation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/egr2/9414155