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Product datasheet

Anti-EGR2 antibody [OTI1F10] ab156765

2 Images

Overview

Product name	Anti-EGR2 antibody [OTI1F10]
Description	Mouse monoclonal [OTI1F10] to EGR2
Host species	Mouse
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human, African green monkey **Predicted to work with:** Pig
Immunogen	Recombinant fragment corresponding to Human EGR2 aa 156-476. (NP_000390) produced in E.coli. Sequence: QTQPDLDHLYSPPPPPPPYSGCAGDLYQDPSAFLSAATT STSSSLAYPPP PSYPSPKPATDPGLFPMIPDYPGFFPSQCQRDLHGTAGP DRKPFPCPLDT LRVPPPLTPLSTIRNFTLGGPSAGVTGPGASGGSEGPRLP GSSSAAAAAA AAAAYNPHHLPLRPILRPRKYPNRPSKTPVHERPYPCPAE GCDRRFSRSD ELTRHIRIHTGHKPFQCRICMRNFSRSDHLTTHIRTHTGEKP FACDYCGR KFARSDERKRHTKIHLRQKERKSSAPSASVPAPSTASCS GGVQPGGTLCS SNSSSLGGGPLAPCSSRTRTP Database link: **P11161-1** **Run BLAST with** **Run BLAST with**
Positive control	ICC/IF: COS-7 cells transiently transfected by pCMV6-ENTRY EGR2. WB: Recombinant Human EGR2 protein (**ab132968**), pCMV6-ENTRY EGR2 cDNA transfected HEK-293T cell lysate.
General notes	The clone number has been updated from 1F10 to OTI1F10, both clone numbers name the same clone. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or

contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 1% BSA, 50% Glycerol, PBS
Purity	Affinity purified
Purification notes	Purified from cell culture supernatant by affinity chromatography
Clonality	Monoclonal
Clone number	OTI1F10
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab156765 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

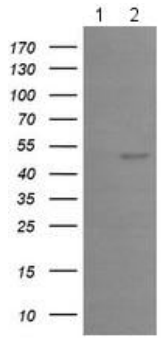
Application	Abreviews	Notes
WB		1/500. Predicted molecular weight: 50.1 kDa.
ICC/IF		1/100.

Target

Function	Sequence-specific DNA-binding transcription factor. Binds to two specific DNA sites located in the promoter region of HOXA4.
Involvement in disease	Defects in EGR2 are a cause of congenital hypomyelination neuropathy (CHN) [MIM:605253]. 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) [MIM:607678]. 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) [MIM:145900]; 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.
Sequence similarities	Belongs to the EGR C2H2-type zinc-finger protein family. Contains 3 C2H2-type zinc fingers.
Post-translational modifications	Ubiquitinated by WWP2 leading to proteasomal degradation.
Cellular localization	Nucleus.

Images



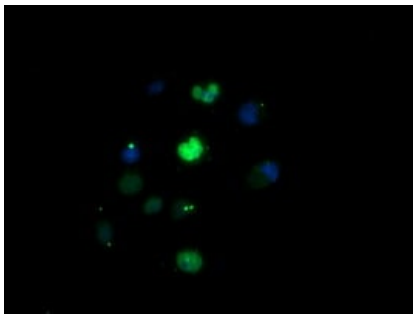
Western blot - Anti-EGR2 antibody [OTI1F10] (ab156765)

All lanes : Anti-EGR2 antibody [OTI1F10] (ab156765) at 1/500 dilution

Lane 1 : pCMV6-ENTRY EGR2 cDNA transfected HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate
Lane 2 : pCMV6-ENTRY control cDNA transfected HEK-293T cell lysate

Lysates/proteins at 5 µg per lane.

Predicted band size: 50.1 kDa



Immunocytochemistry/ Immunofluorescence - Anti-EGR2 antibody [OTI1F10] (ab156765)

pCMV6-ENTRY EGR2 cDNA transfected COS-7 (African green monkey kidney fibroblast-like cell line) cells stained for EGR2 using ab156765 at a 1/100 dilution in ICC/IF.

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