Datasheet for ABIN129622

anti-EGR1 antibody (AA 94-108)

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Overview

Quantity:	100 µg
Target:	EGR1
Binding Specificity:	AA 94-108
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EGR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	This affinity-purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 94-108 (eqpyehltaesfpdi) of Human EGR-1.
Isotype:	IgG
Cross-Reactivity:	Chimpanzee, Mouse (Murine)
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	EGR1
Alternative Name:	EGR-1 (EGR1 Products)

Target Details

Background:	EGR-1 (also called Early Growth Response protein 1, Krox-24 protein, ZIF268, Nerve growth factor-induced protein A or NGFI-A, Transcription factor ETR103, and Zinc finger protein 225 or AT225) is a transcriptional regulator that recognizes and binds to the DNA sequence 5'-CGCCCCCGC-3' (EGR-site). EGR-1 activates the transcription of target genes whose products are required for mitogenesis and differentiation. EGR-1 is a nuclear protein induced by growth factors. Expression has been identified in a variety of cancers. Synonyms: AT225 antibody, Early growth response 1 antibody, G0S30 antibody, Krox 24 protein antibody, KROX24 antibody, Nerve growth factor-induced protein A antibody
Gene ID:	1958
UniProt:	P18146
Pathways:	Regulation of Carbohydrate Metabolic Process, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	This affinity purified antibody has been tested for use in ELISA, immunohistochemistry and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~58 kDa in size corresponding to EGR-1 by western blotting in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.93 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

Product cited in:	Welc, Flores, Wehling-Henricks, Ramos, Wang, Bertoni, Tidball: "Targeting a therapeutic LIF

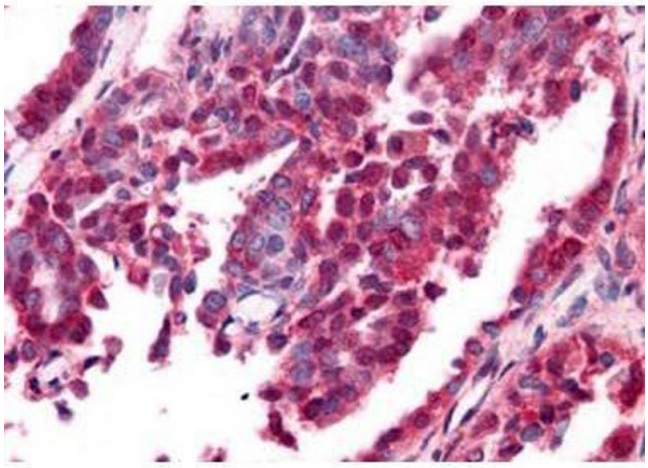
Publications

transgene to muscle via the immune system ameliorates muscular dystrophy." in: **Nature communications**, Vol. 10, Issue 1, pp. 2788, (2019) (PubMed).

Finno, Gianino, Perumbakkam, Williams, Bordbari, Gardner, Burns, Peng, Durward-Akhurst, Valberg: "A missense mutation in MYH1 is associated with susceptibility to immune-mediated myositis in Quarter Horses." in: **Skeletal muscle**, Vol. 8, Issue 1, pp. 7, (2018) (PubMed).

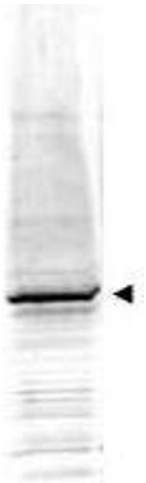
Huang, Ge, Izzi, Greenspan: "α3 Chains of type V collagen regulate breast tumour growth via glypican-1." in: **Nature communications**, Vol. 8, pp. 14351, (2018) (PubMed).

Images



Immunohistochemistry

Image 1. Affinity Purified anti-EGR-1 antibody was used at a 10 ug/ml to detect nuclear and cytoplasmic signal with low background staining in a variety of tissues including multi-human, multi-brain and multi-cancer slides. Within the multi-tumor block, the antibody showed variable levels of nuclear and cytoplasmic staining between individual tumors, with some tumors showing moderate staining. This image shows EGR-1 staining of human ovarian carcinoma. Tissue was formalin-fixed and paraffin embedded. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.



Western Blotting

Image 2. Western blot using Affinity Purified anti-EGR-1 antibody shows detection of a predominant band at ~58 kDa correspond-ing to EGR-1 present in mouse embryonic fibroblast whole cell lysate (arrowhead). Approximately 35 µg of lysate was separated by 4-20% SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1,500. Reaction occurred 2h at room temp-erature

followed by washes and reaction with a 1:10,000 dilution of800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature.800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.