Anti-EGR-1 (RABBIT) Antibody - 600-401-693

Code: 600-401-693 **Size:** 100 µg

Product Description: Anti-EGR-1 (RABBIT) Antibody - 600-401-693

Concentration: 0.93 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	EGR-1
Species Reactivity	human, chimpanzee, mouse
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit anti-EGR-1 Antibody, EGR1, EGR 1, AT225 antibody, Early growth response 1 antibody, KROX24 antibody, Nerve growth factor-induced protein A antibody, NGFI-A, Transcription factor ETR103, Transcription factor Zif268, ZNF225
Application Note	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.
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.
Purity And Specificity	This affinity purified antibody is directed against human EGR-1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human and chimpanzee sources based on 100% homology for the immunogen sequence. This antibody is expected to cross react with EGR-1.
Assay Dilutions	User Optimized
ELISA	1:4,000 - 1:16,000
Western Blot	1:500 - 1:3,000
Immunohistochemistry	2 µg/ml to 20 µg/ml
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
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.
General Reference	Suggs,S.V., Katzowitz,J.L., Tsai-Morris,C. and Sukhatme,V.P. (1990) cDNA sequence of the human cellular early growth response gene Egr-1. Nucleic Acids Res. 18 (14), 4283.Shimizu,N., Ohta,M., Fujiwara,C., Sagara,J., Mochizuki,N., Oda,T. and Utiyama,H. (1992) A gene coding for a zinc finger protein is induced during 12-O-tetradecanoylphorbol-13-acetate-stimulated HL-60 cell differentiation. J. Biochem. 111 (2), 272-277.Wright,J.J., Gunter,K.C., Mitsuya,H., Irving,S.G., Kelly,K. and Siebenlist,U. (1990) Expression of a zinc finger gene in HTLV-I- and HTLV-II-transformed cells. Science 248 (4955), 588-591.

Related Products

611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

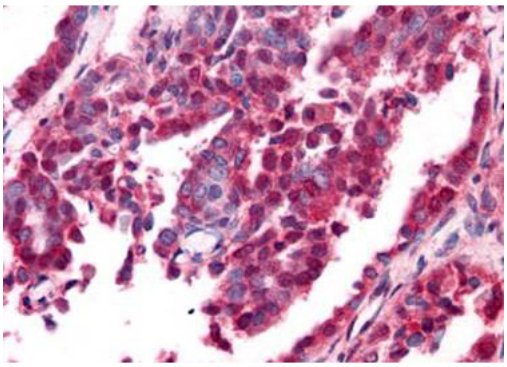
K-500	Antibody and Blocking Solution Starter PackK-500
K505	Blocking Buffer Sampler Kit - K505
MB-064-0100	ELISA Microwell Blocking Buffer with Stabilizer (Azide and Mercury Free) - MB-064-0100

Related Links

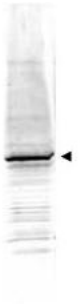
	NCBI - P18146.1
http://www.ncbi.nlm.nih.gov/protein/P18146.1	
UniProtKB - P18146	http://www.uniprot.org/uniprot/P18146
	GeneID - 1958

Images

1	Rockland's 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.

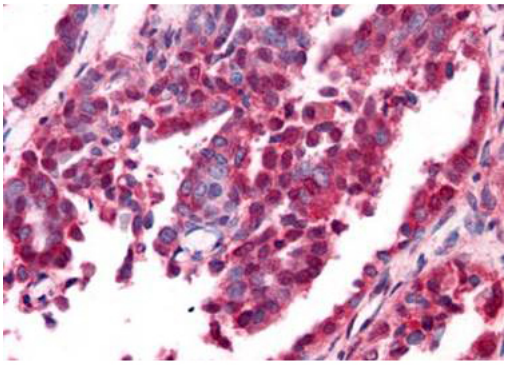


2	Western blot using Rockland's Affinity Purified anti-EGR-1 antibody shows detection of a predominant band at ~58 kDa correspond-ing to EGR-1 present in mouse embryonic fibroblast whole cell lysate (arrowhead). Approximately 35 ?g of lysate was separated by 4-20% SDS-PAGE and transferred onto nitrocellulose. 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 of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX (611-132-122) for 45 min at room temperature. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results



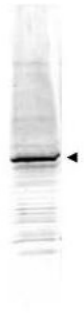
3

Rockland's Affinity Purified anti-EGR-1 antibody was used at a 10 µg/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.



4

Western blot using Rockland's 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 ?g 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 of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX (611-132-122) for 45 min at room temperature. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.