

EGR1 Monoclonal Antibody (T.160.5)

Catalog NumberMA5-15008

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Rat, Mouse, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	ChIP assay (ChIP)	Dilution *1:50
Clone	T.160.5	Immunoprecipitation (IP)	1:50
Immunogen	Synthetic peptide corresponding to the amino terminus of the sequence of human EGR1	Western Blot (WB)	1:1,000
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	1:1,600
Form	Liquid	Published Applications	
Concentration	42 µg/mL	Western Blot (WB)	See 3 publications below
Purification	Affinity chromatography	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	0.01M HEPES, pH 7.5, with 100µg /mL BSA, 50% glycerol, 0.15M NaCl		
Contains	<0.02% sodium azide		
Storage Conditions	-20°C		

Product specific information

It is not recommended to aliquot this antibody.

Background/Target Information

The protein encoded by this gene belongs to the EGR family of C2H2-type zinc-finger proteins. It is a nuclear protein and functions as a transcriptional regulator. The products of target genes it activates are required for differentiation and mitogenesis. Studies suggest this is a cancer suppressor gene.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

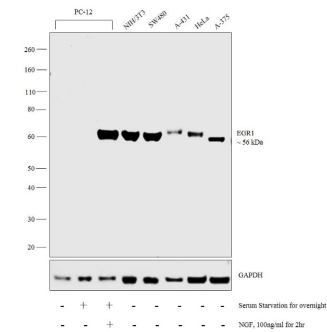
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

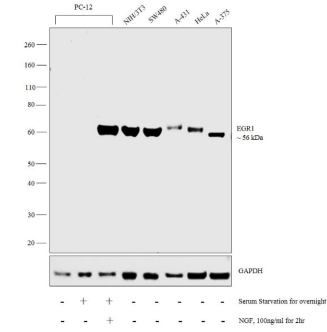
EGR1 Antibody (MA5-15008) in WB

Western blot analysis was performed on modified whole cell extracts (1% SDS) of PC-12 (Lane 1), PC-12 Serum Starved (Serum starved for overnight) (Lane 2), PC-12 Serum Starved and then treated with NGF (Serum Starved for overnight, NGF treatment at 100 ng/mL for 2hr) (Lane 3), NIH/3T3 (Lane 4), SW480 (Lane 5), A-431 (Lane 6), HeLa (Lane 7) and A-375 (Lane 8). The blot was probed with Anti-EGR1 Monoclonal Antibody (Product # MA5-15008, 1:1,000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4,000 dilution). A 56 kDa band corresponding to EGR1 was detected across the cell lines and tissues tested. Also there was an induction of EGR1 in PC-12 cells upon NGF treatment.



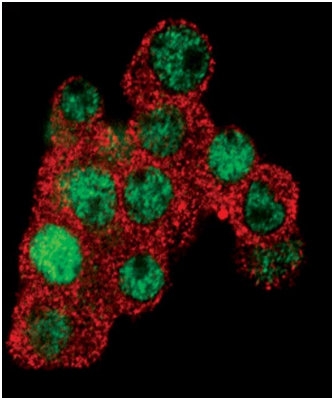
EGR1 Antibody (MA5-15008)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using EGR1 Monoclonal Antibody (Product # MA5-15008), shows increased expression of proteins in PC-12 cells treated with NGF. {TM}



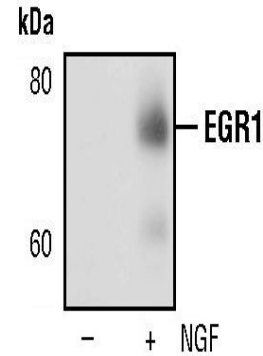
EGR1 Antibody (MA5-15008) in ICC/IF

Immunofluorescent analysis of EGR1 in dissociated PC12 cells using an EGR1 monoclonal antibody (Product # MA5-15008) (green) and a MEK1/2 monoclonal antibody (red).



EGR1 Antibody (MA5-15008) in WB

Western blot analysis of EGR1 in extracts from serum-starved PC12 cells, untreated or NGF-treated (100 ng/mL for 2 hours), using EGR1 monoclonal antibody (Product # MA5-15008).



For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

PubMed References For EGR1 Monoclonal Antibody (T.160.5)

3 Western Blot References

Species / Dilution	Summary
	MA5-15008 was used in Western Blotting to show that p53 hotspot mutants inhibit wild-type p53 similarly but differ in their GOF activities, with stronger tumor-promoting activity in contact mutants and distinct protein partners of each mutant driving tumorigenesis and metastasis.
Mouse / 1:1000	Cancer research (2022; 82: 1926) "Differential Gain-of-Function Activity of Three p53 Hotspot Mutants In Vivo." Author(s):Xiong S,Chachad D,Zhang Y,Gencel-Augusto J,Sirito M,Pant V,Yang P,Sun C,Chau G,Qi Y,Su X,Whitley EM,El-Naggar AK,Lozano G PubMed Article URL: http://dx.doi.org/10.1158/0008-5472.CAN-21-3376
	MA5-15008 was used in western blot to study the molecular mechanisms by which melatonin treatment improves memory in a scopolamine-induced amnesia model
Rat / 1:500	Molecular neurobiology (2013; 47: 373) "Melatonin attenuates scopolamine-induced memory/synaptic disorder by rescuing EPACs/miR-124/Egr1 pathway." Author(s):Wang X,Wang ZH,Wu YY,Tang H,Tan L,Wang X,Gao XY,Xiong YS,Liu D,Wang JZ,Zhu LQ PubMed Article URL: http://dx.doi.org/10.1007/s12035-012-8355-9
	MA5-15008 was used in Western Blotting to support further clinical studies of a fasting-mimicking diet as an adjuvant to oestrogen therapy in hormone-receptor-positive breast cancer.
Mouse / Not Cited	Nature (2020; 583: 620) "Fasting-mimicking diet and hormone therapy induce breast cancer regression." Author(s):Caffa I,Spagnolo V,Vernieri C,Valdemarin F,Becherini P,Wei M,Brandhorst S,Zucal C,Driehuis E,Ferrando L,Piacente F,Tagliafico A,Cilli M,Mastracci L,Vellone VG,Piazza S,Cremonini AL,Gradaschi R,Mantero C,Passalacqua M,Ballestrero A,Zoppoli G,Cea M,Arrighi A,Odetti P,Monacelli F,Salvadori G,Cortellino S,Clevers H,De Braud F,Sukkar SG,Provenzani A,Longo VD,Nencioni A PubMed Article URL: http://dx.doi.org/10.1038/s41586-020-2502-7

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.