10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EGR1 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant EGR1.
Catalog # AT1865a

Product Information

Application	WB, E
Primary Accession	P18146
Other Accession	NM_001964
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3C7
Calculated MW	57507

Additional Information

Gene ID	1958
Other Names	Early growth response protein 1, EGR-1, AT225, Nerve growth factor-induced protein A, NGFI-A, Transcription factor ETR103, Transcription factor Zif268, Zinc finger protein 225, Zinc finger protein Krox-24, EGR1, KROX24, ZNF225
Target/Specificity	EGR1 (NP_001955, 444 a.a. ~ 543 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	EGR1 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

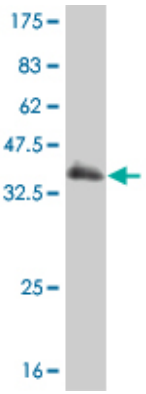
The protein encoded by this gene belongs to the EGR family of C2H2-type zinc-finger proteins. It is a nuclear protein and functions as a transcriptional regulator. The products of target genes it activates are required for differentitation and mitogenesis. Studies suggest this is a cancer suppresor gene.

References

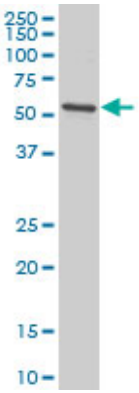
Cigarette smoke-induced Egr-1 represses T beta R-II expression in human skin dermal fibroblasts. Kim JN, et al. Toxicology, 2010 Sep 10. PMID 20621662.Advanced glycation end product (AGE)-receptor for AGE (RAGE)

signaling and up-regulation of Egr-1 in hypoxic macrophages. Xu Y, et al. J Biol Chem, 2010 Jul 23. PMID 20507991.Placenta growth factor-induced early growth response 1 (Egr-1) regulates hypoxia-inducible factor-1alpha (HIF-1alpha) in endothelial cells. Patel N, et al. J Biol Chem, 2010 Jul 2. PMID 20448047.Mature human neutrophils constitutively express the transcription factor EGR-1. Cullen EM, et al. Mol Immunol, 2010 May. PMID 20363028.The effect of siRNA-Egr-1 and camptothecin on growth and chemosensitivity of breast cancer cell lines. Parra E, et al. Oncol Rep, 2010 Apr. PMID 20204305.

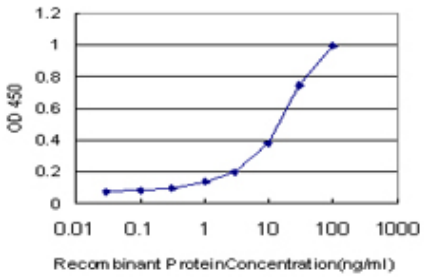
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



EGR1 monoclonal antibody (M06), clone 3C7 Western Blot analysis of EGR1 expression in Hela S3 NE ((Cat # AT1865a)



Detection limit for recombinant GST tagged EGR1 is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.