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GCM1 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant GCM1.
Catalog # AT2179a

Product Information

Application	WB, IF, E
Primary Accession	Q9NP62
Other Accession	NM_003643
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4E9

Additional Information

Other Names	Chorion-specific transcription factor GCMa, hGCMa, GCM motif protein 1, Glial cells missing homolog 1, GCM1, GCMA
Target/Specificity	GCM1 (NP_003634, 108 a.a. ~ 166 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 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	GCM1 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

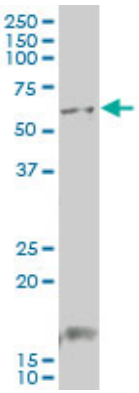
This gene encodes a DNA-binding protein with a gcm-motif (glial cell missing motif). The encoded protein is a homolog of the Drosophila glial cells missing gene (gcm). This protein binds to the GCM-motif (A/G)CCCGCAT, a novel sequence among known targets of DNA-binding proteins. The N-terminal DNA-binding domain confers the unique DNA-binding activity of this protein.

References

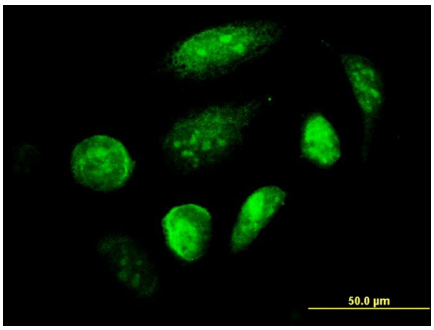
Parallel genotyping of 10,204 single nucleotide polymorphisms to screen for susceptible genes for IgA nephropathy. Woo KT, et al. Ann Acad Med Singapore, 2009 Oct. PMID 19890582.Syncytin-1 and glial cells missing a: hypoxia-induced deregulated gene expression along with disordered cell fusion in primary term human trophoblasts. Wich C, et al. Gynecol Obstet Invest, 2009. PMID 19321927.Glial cell missing-1 transcription factor is required for the differentiation of the human trophoblast. Baczyk D, et al. Cell Death Differ, 2009 May. PMID 19219068.Transcriptomic and genetic studies identify IL-33 as a candidate gene for

Alzheimer's disease. Chapuis J, et al. Mol Psychiatry, 2009 Nov. PMID 19204726.Ubiquitin-conjugating enzyme UBE2D2 is responsible for FBXW2 (F-box and WD repeat domain containing 2)-mediated human GCM1 (glial cell missing homolog 1) ubiquitination and degradation. Chiang MH, et al. Biol Reprod, 2008 Nov. PMID 18703417.

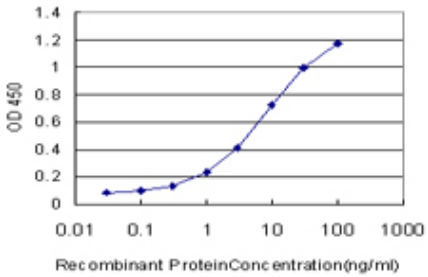
Images



GCM1 monoclonal antibody (M04), clone 4E8. Western Blot analysis of GCM1 expression in FHs 173 WE.



Immunofluorescence of monoclonal antibody to GCM1 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged GCM1 is approximately 0.1ng/ml as a capture antibody.