

PIR Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a full length recombinant PIR.

Catalog # AT3317a

Product Information

Application	WB
Primary Accession	O00625
Other Accession	BC002517
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4D1
Calculated MW	32113

Additional Information

Gene ID	8544
Other Names	Pirin, Probable quercetin 2, 3-dioxygenase PIR, Probable quercetinase, PIR
Target/Specificity	PIR (AAH02517, 1 a.a. ~ 290 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
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	PIR Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

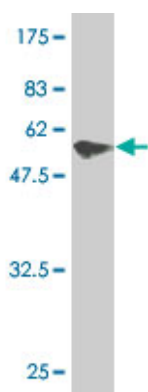
This gene encodes a member of the cupin superfamily. The encoded protein is an Fe(II)-containing nuclear protein expressed in all tissues of the body and concentrated within dot-like subnuclear structures. Interactions with nuclear factor I/CCAAT box transcription factor as well as B cell lymphoma 3-encoded oncoprotein suggest the encoded protein may act as a transcriptional cofactor and be involved in the regulation of DNA transcription and replication. Alternatively spliced transcript variants have been described.

References

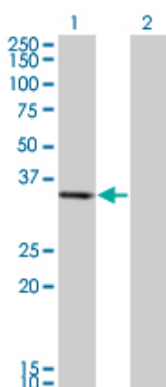
Pirin delocalization in melanoma progression identified by high content immuno-detection based

approaches. Licciulli S, et al. BMC Cell Biol, 2010 Jan 20. PMID 20089166. Pirin downregulation is a feature of AML and leads to impairment of terminal myeloid differentiation. Licciulli S, et al. Leukemia, 2010 Feb. PMID 20010624. Sex-specific effect of Pirin gene on bone mineral density in a cohort of 4000 Chinese. Tang NL, et al. Bone, 2010 Feb. PMID 19766747. Structural and biochemical analysis reveal pirins to possess quercetinase activity. Adams M, et al. J Biol Chem, 2005 Aug 5. PMID 15951572. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Images

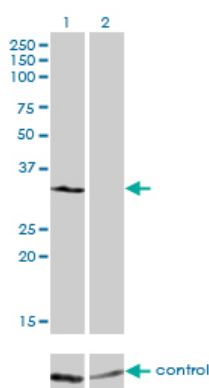


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (57.64 KDa) .



Western Blot analysis of PIR expression in transfected 293T cell line by PIR monoclonal antibody (M03), clone 4D1.

Lane 1: PIR transfected lysate (32.113 KDa).
Lane 2: Non-transfected lysate.



Western blot analysis of PIR over-expressed 293 cell line, cotransfected with PIR Validated Chimera RNAi (Cat # AT3317a)

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