

PIR Antibody (monoclonal) (M03)**Mouse monoclonal antibody raised against a full length recombinant PIR.****Catalog # AT3317a****Specification**

PIR Antibody (monoclonal) (M03) - Product Information

Application	WB
Primary Accession	O00625
Other Accession	BC002517
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	32113

PIR Antibody (monoclonal) (M03) - 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.

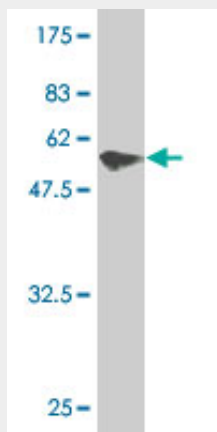
PIR Antibody (monoclonal) (M03) - Protocols

Provided below are standard protocols that you may find useful for product applications.

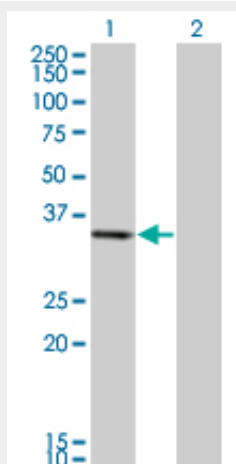
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PIR Antibody (monoclonal) (M03) - Images



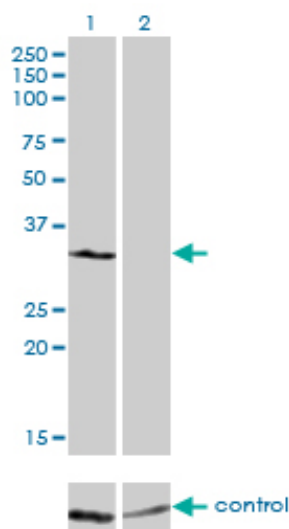
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (57.64 kDa) .



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)

PIR Antibody (monoclonal) (M03) - 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.

PIR Antibody (monoclonal) (M03) - 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.