

Goat Anti-Pirin Antibody
Peptide-affinity purified goat antibody
Catalog # AF1832a**Specification**

Goat Anti-Pirin Antibody - Product Information

Application	WB
Primary Accession	O00625
Other Accession	NP_003653 , 8544
Reactivity	Human
Predicted	Mouse
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	32113

Goat Anti-Pirin Antibody - Additional Information**Gene ID** 8544**Other Names**

Pirin, 1.13.11.24, Probable quercetin 2, 3-dioxygenase PIR, Probable quercetinase, PIR

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-Pirin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Pirin Antibody - Protein Information**Name** PIR**Function**

Transcriptional coregulator of NF-kappa-B which facilitates binding of NF-kappa-B proteins to target kappa-B genes in a redox- state-dependent manner. May be required for efficient terminal myeloid maturation of hematopoietic cells. Has quercetin 2,3-dioxygenase activity (in vitro).

Cellular Location

Nucleus. Cytoplasm Note=Predominantly localized in dot-like subnuclear structures Cytoplasmic

localization of PIR seems to positively correlate with melanoma progression.

Tissue Location

Highly expressed in a subset of melanomas. Detected at very low levels in most tissues (at protein level). Expressed in all tissues, with highest level of expression in heart and liver

Goat Anti-Pirin Antibody - Protocols

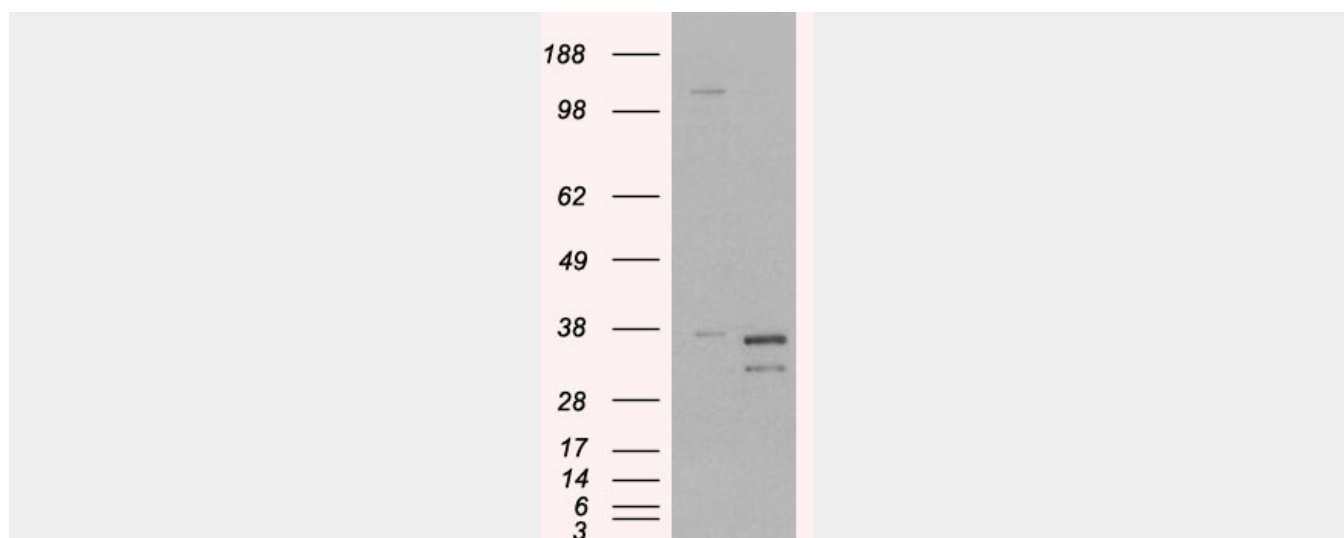
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-Pirin Antibody - Images



AF1832a (0.3 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



HEK293 overexpressing PIR (RC223111) and probed with AF1832a (mock transfection in first lane), tested by Origene.

Goat Anti-Pirin Antibody - 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.

Goat Anti-Pirin Antibody - 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.