

## **Goat Anti-Pirin Antibody**

Peptide-affinity purified goat antibody Catalog # AF1832a

## Specification

# **Goat Anti-Pirin Antibody - Product Information**

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW WB <u>O00625</u> <u>NP\_003653</u>, <u>8544</u> Human Mouse Goat Polyclonal 100ug/200ul IgG 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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# Goat Anti-Pirin Antibody - Images



AF1832a (0.3  $\mu$ g/ml) staining of Human Heart lysate (35  $\mu$ g 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.

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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.