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PYHIN1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5376a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q6K0P9
Other Accession	Q16666, NP_945146.1, NP_945148.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26421
Calculated MW	55065
Antigen Region	26-55

Additional Information

Gene ID	149628
Other Names	Pyrin and HIN domain-containing protein 1, Interferon-inducible protein X, PYHIN1, IFIX
Target/Specificity	This PYHIN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-55 amino acids from the N-terminal region of human PYHIN1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PYHIN1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PYHIN1
Synonyms	IFIX

Function	Major mediator of the tumor suppressor activity of IFN in breast cancer cells. Promotes ubiquitination and subsequent degradation of MDM2, which leads to p53/TP53 stabilization. Promotes ubiquitination and subsequent degradation of HDAC1, which in turn enhances maspin expression, and impairs invasive activity of cancer cells.
Cellular Location	[Isoform 1]: Nucleus, nucleoplasm. [Isoform 5]: Nucleus. Nucleus speckle.
Tissue Location	Expressed in spleen, lymph node and peripheral blood leukocytes, and at lower levels in thymus, bone marrow and fetal liver. Down-regulated in breast tumors.

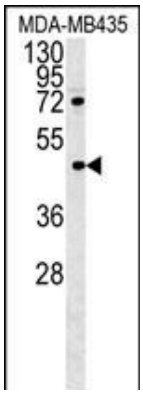
Background

PYHIN1 belongs to the HIN200 family of interferon-inducible proteins that share a 200-amino acid signature motif at their C-terminal ends. HIN200 proteins are primarily nuclear and are involved in transcriptional regulation of genes important for cell cycle control, differentiation, and apoptosis (Ding et al., 2006 [PubMed 16479015]).

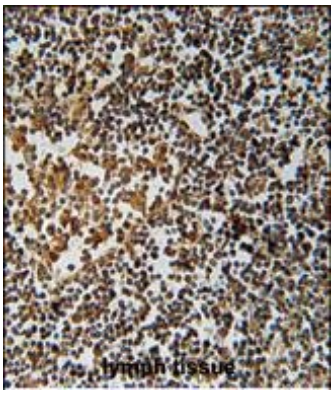
References

Yamaguchi, H., et al. Mol. Carcinog. 47(10):739-743(2008)
Ding, Y., et al. Mol. Cell. Biol. 26(5):1979-1996(2006)
Ding, Y., et al. Oncogene 23(26):4556-4566(2004)

Images

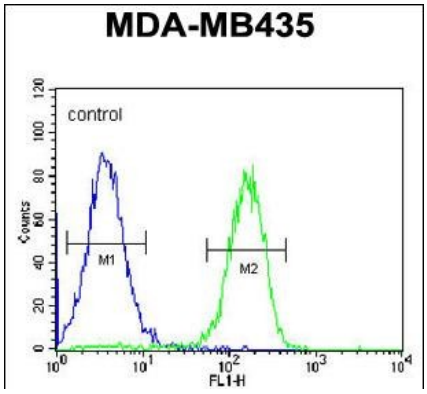


PYHIN1 Antibody (N-term)(Cat. #AP5376a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the PYHIN1 antibody detected the PYHIN1 protein (arrow).



PYHIN1 Antibody (N-term) (Cat. #AP5376a) immunohistochemistry analysis in formalin fixed and paraffin embedded human lymph tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PYHIN1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

PYHIN1 Antibody (N-term) (Cat. #AP5376a) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary



antibodies were used for the analysis.