10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Pirh2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1358a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q96PM5
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Clone Names	1H10
Isotype	IgG1
Calculated MW	30110
Description	Pirh 2 (P53 induced RING-H2 protein), also known as RCHY1, it forms dimers through its N- and C-terminus in cells. The Pirh2 has ubiquitin-protein ligase activity and it binds with p53 and promotes the ubiquitin-mediated proteosomal degradation of p53. The Pirh2 is oncogenic because loss of p53 function contributes directly to malignant tumor development. Pirh2 expression decreases the level of p53, and a decrease of endogenous Pirh2 expression increases p53 levels. Pirh2 is therefore considered, together with MDM2, to act as a negative regulator of p53 function.
Immunogen	Purified recombinant fragment of human Pirh2 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	25898
Other Names	RING finger and CHY zinc finger domain-containing protein 1, 6.3.2.-, Androgen receptor N-terminal-interacting protein, CH-rich-interacting match with PLAG1, E3 ubiquitin-protein ligase Pirh2, RING finger protein 199, Zinc finger protein 363, p53-induced RING-H2 protein, hPirh2, RCHY1, ARNIP, CHIMP, PIRH2, RNF199, ZNF363
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~N/A
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	Pirh2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RCHY1
Function	E3 ubiquitin-protein ligase that mediates ubiquitination of target proteins, including p53/TP53, TP73, HDAC1 and CDKN1B (PubMed:16914734, PubMed:17721809, PubMed:18006823, PubMed:19043414, PubMed:19483087, PubMed:21994467). Mediates ubiquitination and degradation of p53/TP53; preferentially acts on tetrameric p53/TP53 (PubMed:19043414, PubMed:19483087). Catalyzes monoubiquitinates the translesion DNA polymerase POLH (PubMed:21791603). Involved in the ribosome-associated quality control (RQC) pathway, which mediates the extraction of incompletely synthesized nascent chains from stalled ribosomes: RCHY1 acts downstream of NEMF and recognizes CAT tails associated with stalled nascent chains, leading to their ubiquitination and degradation (PubMed:33909987).
Cellular Location	Nucleus. Nucleus speckle. Cytoplasm

References

1. Biochem Biophys Res Commun. 2007 Dec 14;364(2):344-50. 2. J Natl Cancer Inst. 2004 Nov 17;96(22):1718-21. 3. Exp Cell Res. 2006 Oct 15;312(17):3370-8. 4. Cell. 2003 Mar 21;112(6):779-91.

Images

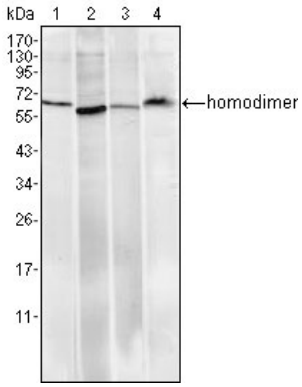


Figure 1: Western blot analysis using Pirh2 mouse mAb against Hela (1), A549 (2), MCF-7 (3) and PC-12 (4) cell lysate.

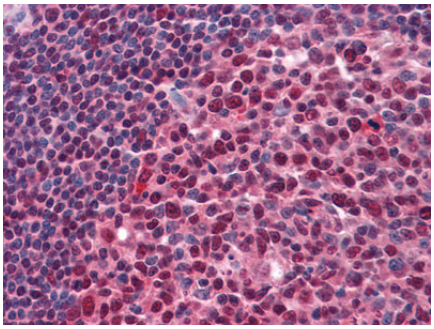
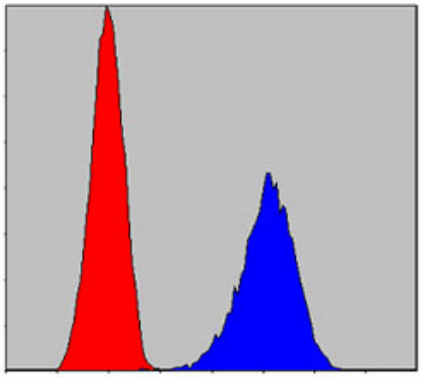


Figure 2: Immunohistochemical analysis of paraffin-embedded human Tonsil tissues using anti-Pirh2 mouse mAb

Figure 3: Flow cytometric analysis of PC-12 cells using anti-Pirh2 mAb (blue) and negative control (red).



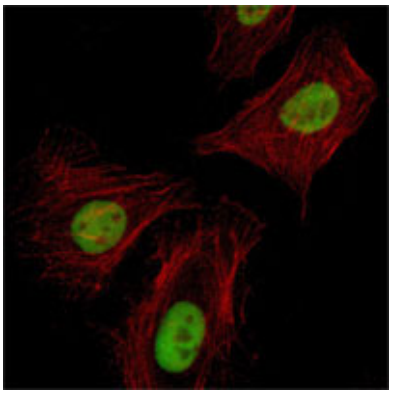


Figure 4: Immunofluorescence analysis of Hela cells using Pirh2 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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