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Pirh21 (7B9) Mouse mAb

Catalog # AP53504

Specification

Pirh21 (7B9) Mouse mAb - Product Information

Application	**WB, IF, FC, IHC-P**
Primary Accession	Q96PM5
Reactivity	**Rat**
Host	**Mouse**
Clonality	**Monoclonal Antibody**
Calculated MW	**30110**

Pirh21 (7B9) Mouse mAb - Additional Information

Gene ID 25898

Other Names
ARNIP; CHIMP; RNF199; RCHY1

Dilution
WB~~1:1000

Pirh21 (7B9) Mouse mAb - 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

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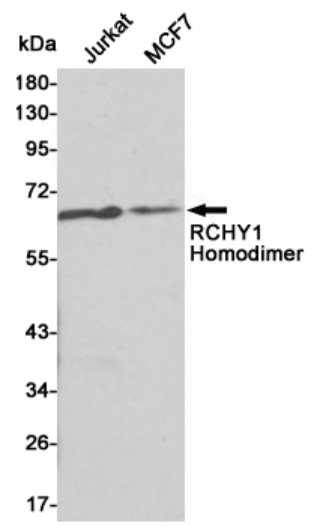
Pirh21 (7B9) Mouse mAb - Protocols

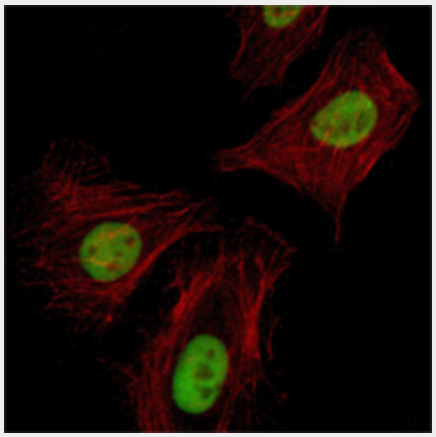
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Pirh21 (7B9) Mouse mAb - Images



Western blot detection of RCHY1 in Jurkat and MCF7 cell lysates using RCHY1 mouse mAb (1:1000 diluted).Predicted band size:30KDa.Observed band size:60KDa.



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

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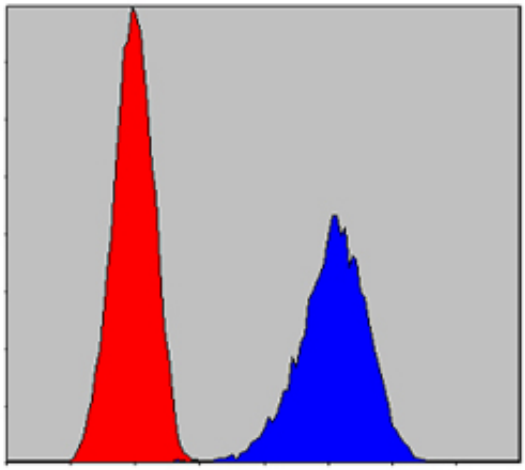
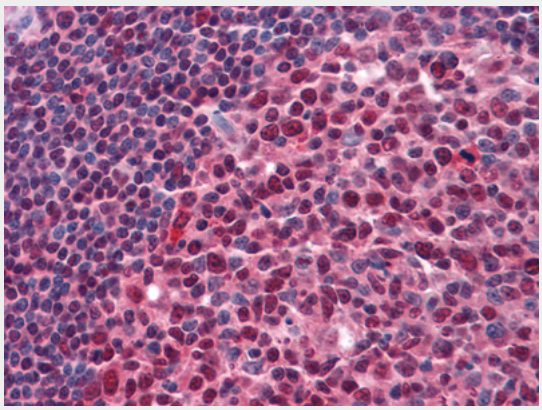


Flow cytometric analysis of PC-12 cells using anti-Pirh2 mAb (blue) and negative control (red).



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

Pirh21 (7B9) Mouse mAb - Background

Swiss-Prot Acc.Q96PM5.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.