

RCHY1 / PIRH2 Antibody (clone 1H10)
Mouse Monoclonal Antibody
Catalog # ALS13183**Specification****RCHY1 / PIRH2 Antibody (clone 1H10) - Product Information**

Application	WB, IF, IHC
Primary Accession	Q96PM5
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	30kDa KDa

RCHY1 / PIRH2 Antibody (clone 1H10) - 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

Target/Specificity

Human RCHY1

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

RCHY1 / PIRH2 Antibody (clone 1H10) is for research use only and not for use in diagnostic or therapeutic procedures.

RCHY1 / PIRH2 Antibody (clone 1H10) - Protein Information**Name** RCHY1**Function**

E3 ubiquitin-protein ligase that mediates ubiquitination of target proteins, including p53/TP53, TP73, HDAC1 and CDKN1B (PubMed: [19483087](http://www.uniprot.org/citations/19483087), PubMed: [19043414](http://www.uniprot.org/citations/19043414), PubMed: [16914734](http://www.uniprot.org/citations/16914734), PubMed: [17721809](http://www.uniprot.org/citations/17721809), PubMed: [18006823](http://www.uniprot.org/citations/18006823), PubMed: [21994467](http://www.uniprot.org/citations/21994467)). Mediates ubiquitination and degradation of p53/TP53; preferentially acts on tetrameric p53/TP53 (PubMed: [19483087](http://www.uniprot.org/citations/19483087), PubMed: [19043414](http://www.uniprot.org/citations/19043414), PubMed: [16914734](http://www.uniprot.org/citations/16914734), PubMed: [17721809](http://www.uniprot.org/citations/17721809), PubMed: [18006823](http://www.uniprot.org/citations/18006823), PubMed: [21994467](http://www.uniprot.org/citations/21994467)).

href="http://www.uniprot.org/citations/19043414" target="_blank">19043414). 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

Volume

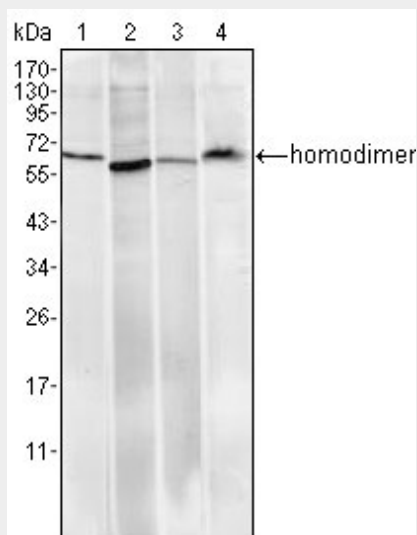
50 µl

RCHY1 / PIRH2 Antibody (clone 1H10) - Protocols

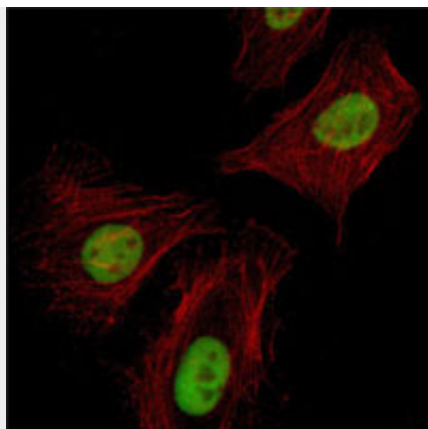
Provided below are standard protocols that you may find useful for product applications.

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

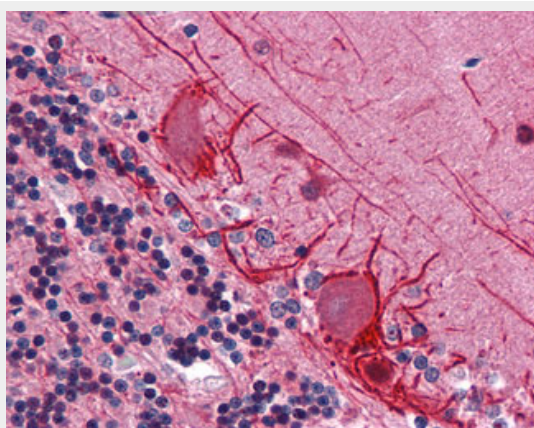
RCHY1 / PIRH2 Antibody (clone 1H10) - Images



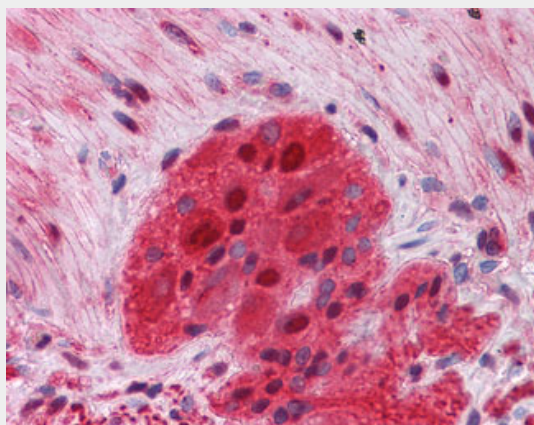
Western blot using Pirh2 mouse monoclonal antibody against HeLa (1), A549 (2), MCF-7 (3) and...



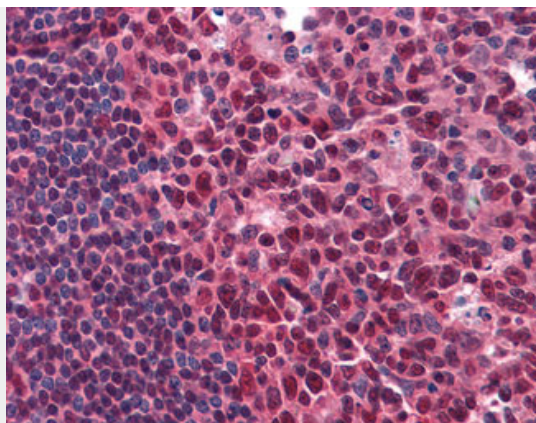
Immunofluorescence of HeLa cells using Pirh2 mouse monoclonal antibody (green).



Anti-RCHY1 / PIRH2 antibody IHC of human brain, cerebellum.



Anti-RCHY1 / PIRH2 antibody IHC of human small intestine, myenteric plexus.



Anti-RCHY1 / PIRH2 antibody IHC of human tonsil.

RCHY1 / PIRH2 Antibody (clone 1H10) - Background

Mediates E3-dependent ubiquitination and proteasomal degradation of target proteins, including p53/TP53, P73, HDAC1 and CDKN1B. Preferentially acts on tetrameric p53/TP53. Monoubiquitinates the translesion DNA polymerase POLH. Contributes to the regulation of the cell cycle progression. Increases AR transcription factor activity.

RCHY1 / PIRH2 Antibody (clone 1H10) - References

Corcoran C.A., et al. J. Biol. Chem. 284:21955-21970(2009).
Beitel L.K., et al. Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
Braem C.V., et al. Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
Wu H.-S., et al. Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.
Wu G., et al. FEBS Lett. 584:2772-2778(2010).