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ASCC2 (13J8) Mouse Monoclonal antibody

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Catalog # AP93894

Specification

ASCC2 (13J8) Mouse Monoclonal antibody - Product Information

Application	WB, IF
Primary Accession	Q9H1I8
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Calculated MW	86360

ASCC2 (13J8) Mouse Monoclonal antibody - Additional Information

Gene ID 84164

Other Names
Activating signal cointegrator 1 complex subunit 2, ASC-1 complex subunit p100, Trip4 complex subunit p100, ASCC2, ASC1P100, RQT3 {ECO:0000303|PubMed:32099016}

Dilution
WB~~1:1000
IF~~1:50~200

Storage Conditions
-20℃

ASCC2 (13J8) Mouse Monoclonal antibody - Protein Information

Name ASCC2

Synonyms ASC1P100, RQT3 {ECO:0000303|PubMed:32099

Function
Ubiquitin-binding protein involved in DNA repair and rescue of stalled ribosomes (PubMed:29144457, PubMed:32099016, PubMed:32579943, PubMed:36302773). Plays a role in DNA damage repair as component of the ASCC complex (PubMed:29144457). Recruits ASCC3 and ALKBH3 to sites of DNA damage by binding to polyubiquitinated proteins that have 'Lys-63'-linked polyubiquitin chains (PubMed:29144457). Part of the ASC-1 complex that enhances NF-kappa-B, SRF and AP1 transactivation (PubMed:12077347). Involved in activation of the ribosome quality control (RQC) pathway, a pathway that degrades nascent peptide chains during problematic translation (PubMed:32099016,

PubMed:32579943, PubMed:36302773). Specifically recognizes and binds RPS20/uS10 ubiquitinated by ZNF598, promoting recruitment of the RQT (ribosome quality control trigger) complex on stalled ribosomes, followed by disassembly of stalled ribosomes (PubMed:36302773).

Cellular Location
Nucleus. Nucleus speckle Note=Colocalizes with the spliceosomal components PRPF8 and SNRNP200/BRR2 in nuclear foci when cells have been exposed to alkylating agents that cause DNA damage. Colocalizes with RNF113A and 'Lys-63'-linked polyubiquitinated proteins, ALKBH3 and ASCC3 in nuclear foci when cells have been exposed to alkylating agents that cause DNA damage.

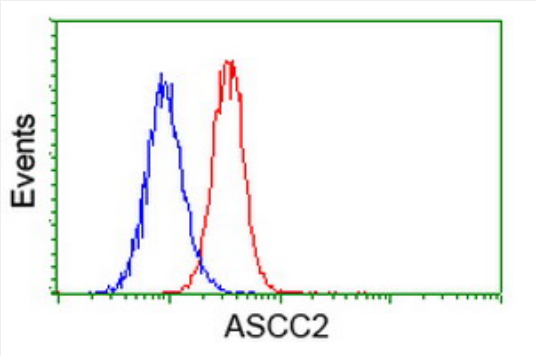
Tissue Location
Ubiquitous..

ASCC2 (13J8) Mouse Monoclonal antibody - 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

ASCC2 (13J8) Mouse Monoclonal antibody - Images



Flow cytometric Analysis of Hela cells, using anti-ASCC2 antibody (AP93894), (Red), compared to a nonspecific negative control antibody , (Blue).

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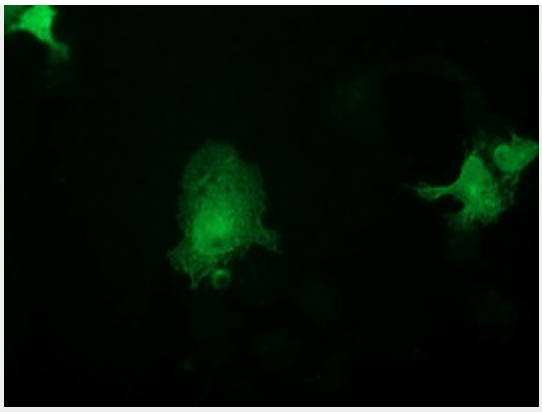
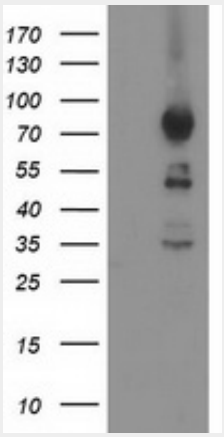


Anti-ASCC2 mouse monoclonal antibody (AP93894) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ASCC2.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ASCC2 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ASCC2(Cat# AP93894). Positive lysates (100ug) and (20ug) can be purchased separately from biodragon.