

KD-Validated Anti-ASCC2 Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI1933**Specification****KD-Validated Anti-ASCC2 Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	O9H1I8
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 86 kDa, observed, 86 kDa kDa
Gene Name	ASCC2
Aliases	ASCC2; Activating Signal CointegRator 1 Complex Subunit 2; ASC1p100; ASC-1 Complex Subunit P100; Trip4 Complex Subunit P100; DKFZp586O0223; FLJ21588; ASC 1 Complex Subunit P100; ASC1P100; P100; RQT3
Immunogen	Recombinant protein of human ASCC2

KD-Validated Anti-ASCC2 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}	

KD-Validated Anti-ASCC2 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](http://www.uniprot.org/citations/29144457), PubMed: [32099016](http://www.uniprot.org/citations/32099016), PubMed: [32579943](http://www.uniprot.org/citations/32579943), PubMed: [36302773](http://www.uniprot.org/citations/36302773)). Plays a role in DNA damage repair as component of the ASCC complex (PubMed: [29144457](http://www.uniprot.org/citations/29144457)). Recruits ASCC3 and ALKBH3 to sites of DNA damage by binding to polyubiquitinated proteins that have 'Lys-63'-linked polyubiquitin chains (PubMed: [29144457](http://www.uniprot.org/citations/29144457)). Part of the ASC-1 complex that enhances NF-kappa-B, SRF and AP1 transactivation (PubMed: [12077347](http://www.uniprot.org/citations/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

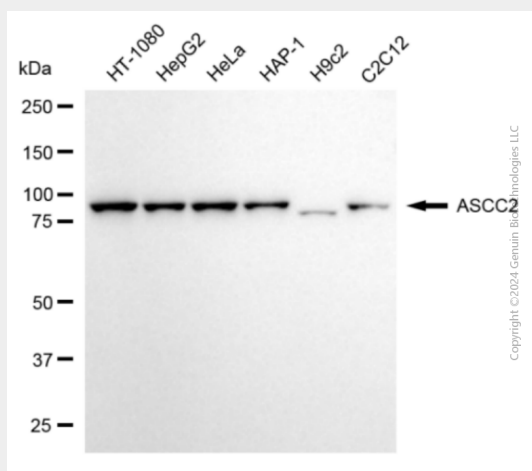
Ubiquitous..

KD-Validated Anti-ASCC2 Mouse Monoclonal Antibody - Protocols

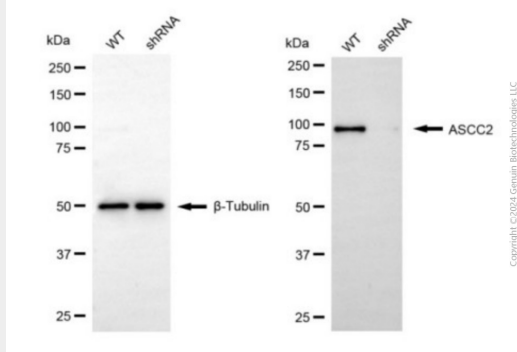
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-ASCC2 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-ASCC2 antibody (Cat#AGI1933). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ASCC2 antibody (Cat#AGI1933, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-ASCC2 antibody (Cat#AGI1933). ASCC2 expression in wild type (WT) and ASCC2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-ASCC2 antibody (Cat#AGI1933, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.