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ASCC2 (14E10) Rabbit Monoclonal Antibody

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Catalog # AP93724

Product Information

Application	WB
Primary Accession	Q9H1I8, Q91WR3
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Calculated MW	86360

Additional Information

Gene ID	84164
Dilution	WB~~1:1000
Storage Conditions	-20℃

Protein Information

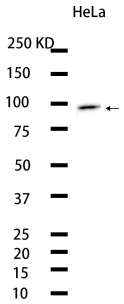
Name	ASCC2
Synonyms	ASC1P100, RQT3 {ECO:0000303|PubMed:32099
Function	Ubiquitin-binding protein involved in DNA repair and rescue of stalled ribosomes (PubMed:29144457, PubMed:32099016, PubMed:32579943, PubMed:36302773). Plays a role in DNA damage repair as component of the ASCC complex (PubMed:29144457). 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..

Background

Predicted to enable ubiquitin binding activity. Involved in regulation of transcription, DNA-templated; rescue of stalled ribosome; and ribosome-associated ubiquitin-dependent protein catabolic process. Located in nucleus. Part of activating signal cointegrator 1 complex. [provided by Alliance of Genome Resources, Apr 2022]

Images



Western blot analysis of extracts from HeLa cells using AP93724 at 1:1000.

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