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KD-Validated Anti-RAD23A Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1649

Product Information

Application	WB, FC, ICC
Primary Accession	P54725
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1080
Calculated MW	39609
Gene Name	RAD23A
Aliases	RAD23 Homolog A, Nucleotide Excision Repair Protein; HHR23A; UV Excision Repair Protein RAD23 Homolog A; RAD23, Yeast Homolog, A; MGC111083; HR23A; RAD23 (S. Cerevisiae) Homolog A; RAD23 Homolog A (S. Cerevisiae)
Immunogen	A synthesized peptide derived from human RAD23A

Additional Information

Gene ID	5886
Other Names	UV excision repair protein RAD23 homolog A, HR23A, hHR23A, RAD23A

Protein Information

Name	RAD23A (HGNC:9812)
Function	Multifunctional protein that participates in histone H4K20 demethylation, DNA repair, ubiquitin-dependent protein degradation, transcriptional regulation, and viral replication (PubMed:12643283, PubMed:14621999, PubMed:15321727, PubMed:20614012, PubMed:32209475, PubMed:9372924). Specifically demethylates mono-, di- and trimethylated 'Lys-20' of histone H4 (H4K20me1, H4K20me2, H4K20me3, respectively) into unmethylated forms. Activates the transcription of coding genes by demethylating H4K20me1 and the transcription of repetitive elements by demethylating H4K20me3 (PubMed:32209475). Involved in modulation of proteasomal degradation. Binds to 'Lys-48'-linked polyubiquitin chains in a length-dependent manner and with a lower affinity to 'Lys-63'- linked polyubiquitin chains. Proposed to be capable to bind simultaneously to the 26S proteasome and to polyubiquitinated substrates and to deliver ubiquitinated proteins to the proteasome (PubMed:12643283, PubMed:14621999, PubMed:15321727). Involved in nucleotide excision repair, is considered functionally equivalent to RAD23B in global genome nucleotide excision repair (GG-NER) through its association with XPC. In vitro, the XPC-RAD23A complex demonstrates NER activity (PubMed:9372924). Can stabilize XPC (By similarity).

Cellular Location Nucleus.

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