

RAD23A Antibody

Rabbit mAb

Catalog # AP92385

Product Information

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|--------------------------|---------------------------------|
| Application | WB, FC |
| Primary Accession | P54725 |
| Reactivity | Rat, Human, Mouse |
| Clonality | Monoclonal |
| Other Names | hHR23A; HR23A; RAD 23a; RAD23A; |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 39609 |

Additional Information

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| Dilution | WB 1:1000~1:5000 FC 1:50 |
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human RAD23A |
| Description | Multiubiquitin chain receptor 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. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

Protein Information

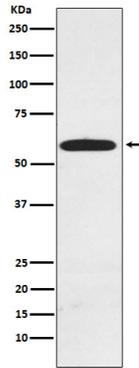
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|-----------------|--|
| Name | RAD23A (HGNC:9812) |
| Function | Multifunctional protein that participates in histone H4K20 demethylation, DNA repair, ubiquitin-dependent protein degradation, transcriptional regulation, and viral replication (PubMed: 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.

Images



Western blot analysis of RAD23A expression in MCF7 cell lysate.

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