

Rabbit RAD23 Polyclonal Antibody | anti-RAD23 antibody

Phospho-RAD23 (Ser357) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329832	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RAD23; Polyclonal Antibody; Phospho-RAD23 (Ser357) Antibody; hHR 23A; hHR23A; HR23A; MGC111083; RAD 23a; RAD23 homolog A (*S. cerevisiae*); RAD23 homolog A; RAD23 yeast homolog A; RAD23A; RD23A_HUMAN; UV excision repair protein RAD23; UV excision repair protein RAD23 homolog A; anti-RAD23 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-RAD23 (Ser357) Antibody detects endogenous levels of RAD23 only when phosphorylated at Ser357.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-RAD23 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RAD23 around the phosphorylation site of Ser357.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Interacts with XPC; the interaction is suggesting the existence of a functional equivalent variant XPC complex. Interacts with PSMD4 and PSMC5. Interacts with ATXN3. Interacts with UBQLN2. (Microbial infection) Interacts with HIV-1 Vpr.
Similarity	The ubiquitin-like domain mediates interaction with ATXN3. The ubiquitin-like (UBL) and the UBA (ubiquitin-associated) domains interact intramolecularly in a highly dynamic manner, as each UBA domain competes for an overlapping UBL domain surface. Binding of ubiquitin or proteasome subunit PSMD4 disrupt the UBL-UBA domain interactions and drive RAD23A in to an open conformation. Belongs to the RAD23 family.
Subcellular Location	Nucleus.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of RAD23 (Phospho-Ser357) using HeLa whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-RAD23 antibody	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. Proposed to be capable to bind simultaneously to the 26S proteasome and to polyubiquitinated substrates and to deliver ubiquitinated proteins to the proteasome. Involved in nucleotide excision repair and is thought to be functional equivalent for RAD23B in global genome nucleotide excision repair (GG-NER) by association with XPC. In vitro, the XPC:RAD23A dimer has NER activity. Can stabilize XPC. (Microbial infection) Involved in Vpr-dependent replication of HIV-1 in non-proliferating cells and primary macrophages. Required for the association of HIV-1 Vpr with the host proteasome.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	392996949
NCBI GeneID	5886
NCBI Accession #	NP_001257291.1
NCBI GenBank Nucleotide #	NM_001270362.1
UniProt Accession #	P54725
Molecular Weight	39,609 Da
NCBI Official Full Name	UV excision repair protein RAD23 homolog A isoform 2
NCBI Official Synonym Full Names	RAD23 homolog A (S. cerevisiae)
NCBI Official Symbol	RAD23A
NCBI Official Synonym Symbols	HR23A; HHR23A
NCBI Protein Information	UV excision repair protein RAD23 homolog A; RAD23, yeast homolog, A
UniProt Protein Name	UV excision repair protein RAD23 homolog A
UniProt Gene Name	RAD23A
UniProt Synonym Gene Names	HR23A; hHR23A
UniProt Entry Name	RD23A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

