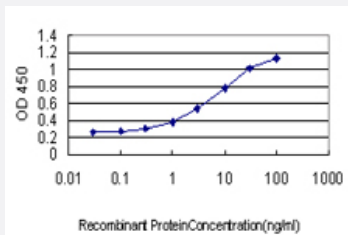


RAD23A monoclonal antibody (M01), clone 3C12

Catalog # H00005886-M01

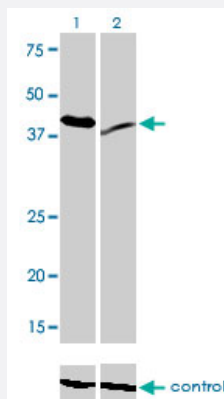
Size 100 ug

Applications



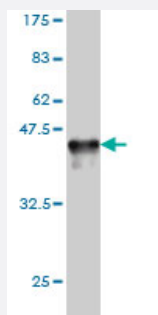
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RAD23A is approximately 0.03ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of RAD23A over-expressed 293 cell line, cotransfected with RAD23A Validated Chimera RNAi (Cat # H00005886-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with RAD23A monoclonal antibody (M01), clone 3C12 (Cat # H00005886-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant RAD23A.

Immunogen	RAD23A (AAH14026, 151 a.a. ~ 250 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	EDAASTLVGTGSEYETMLTEIMSMGYERERVVAALRASYNPNPHRAVEYLLTGIPGSPEPEHGSVQE SQVSEQPATEAAGENPLEFLRDQPQFQNMQRQVIQQ
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (97)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RAD23A is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of RAD23A over-expressed 293 cell line, cotransfected with RAD23A Validated Chimera RNAi (Cat # H00005886-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with RAD23A monoclonal antibody (M01), clone 3C12 (Cat # H00005886-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — RAD23A

Entrez GeneID

[5886](#)

GeneBank Accession#	BC014026
Protein Accession#	AAH14026
Gene Name	RAD23A
Gene Alias	HHR23A, MGC111083
Gene Description	RAD23 homolog A (S. cerevisiae)
Omim ID	600061
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is one of two human homologs of Saccharomyces cerevisiae Rad23, a protein involved in nucleotide excision repair (NER). This protein was shown to interact with, and elevate the nucleotide excision activity of 3-methyladenine-DNA glycosylase (MPG), which suggested a role in DNA damage recognition in base excision repair. This protein contains an N-terminal ubiquitin-like domain, which was reported to interact with 26S proteasome, as well as with ubiquitin protein ligase E6AP, and thus suggests that this protein may be involved in the ubiquitin mediated proteolytic pathway in cells. [provided by RefSeq]
Other Designations	RAD23, yeast homolog, A UV excision repair protein RAD23 homolog A

Publication Reference

- [DNA repair proteins as the targets for paroxetine to induce cytotoxicity in gastric cancer cell AGS.](#)

Bang-Hung Liu, Tein-Ming Yuan, Chih-Jou Huang, Duan-Ting Hsu, Shi-Wen Chen, Nai-Wan Hsiao, Sheng-Chih Lin, Shu-Wan Wu, Yi-Mei J Lin and Show-Mei Chuang.

American Journal of Cancer Research 2022 Apr; 12(4):1465.

Application: WB-Ce, Human, AGS cells, MKN-45 cells

- [Human Rad23A plays a regulatory role in autophagy.](#)

Tan X, Wang HC, Liang RY, Chuang SM.

Biochemical and Biophysical Research Communications 2016 Sep; 478(4):1772.

Application: WB-Tr, Human, A549 cells

- [hHR23A is required to control the basal turnover of Chk1.](#)

Tana X, Lianga RY, Chuang SM.

Cellular Signalling 2015 Nov; 27(11):2304.

Application: WB, Human, A549 cells

- [Cisplatin transiently up-regulates hHR23 expression through enhanced translational efficiency in A549 adenocarcinoma cells.](#)

Shen YH, Chen BR, Cherng SH, Chueh PJ, Tan X, Lin YW, Lin JC, Chuang SM.

Toxicology Letters 2011 Sep; 205(3):341.

Application: WB-Ce, WB-Tr, Human, A549, HeLa cells

Pathway

- [Nucleotide excision repair](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [DNA Damage](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Multiple Sclerosis](#)