

Product datasheet

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ARG54153 anti-hHR23b antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody recognizes HR23B

Tested Reactivity Hu, Ms, Rat, Hm, Mk

Tested Application ICC/IF, IHC-P, WB

Host Mouse

Clonality Monoclonal

Isotype IgG2b
Target Name hHR23b
Species Human

Immunogen Purified recombinant human hHR23b protein fragments expressed in E.coli.

Conjugation Un-conjugated

Alternate Names HR23B; HHR23B; UV excision repair protein RAD23 homolog B; P58; hHR23B; p58; XP-C repair-

complementing complex 58 kDa protein

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100
	IHC-P	Assay-dependent
	WB	1:1000
Application Note	IHC-P: Antigen Retrieval: Pressure cooking was performed in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	58 kDa	

Properties

Form Liquid

Purification Affinity purified

Buffer PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Concentration 1.5 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol Gene Full Name Background

Function

RAD23B

RAD23 homolog B (S. cerevisiae)

Multiubiquitin chain receptor involved in modulation of proteasomal degradation. Binds to 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. May play a role in endoplasmic reticulum-associated degradation (ERAD) of misfolded glycoproteins by association with PNGase and delivering deglycosylated proteins to the proteasome. x000D Involved in global genome nucleotide excision repair (GG-NER) by acting as component of the XPC complex. Cooperatively with CETN2 appears to stabilize XPC. May protect XPC from proteasomal degradation. x000D The XPC complex is proposed to represent the first factor bound at the sites of DNA damage and together with other core recognition factors, XPA, RPA and the TFIIH complex, is part of the pre-incision (or initial recognition) complex. The XPC complex recognizes a wide spectrum of damaged DNA characterized by distortions of the DNA helix such as single-stranded loops, mismatched bubbles or single-stranded overhangs. The orientation of XPC complex binding appears to be crucial for inducing a productive NER. XPC complex is proposed to recognize and to interact with unpaired bases on the undamaged DNA strand which is followed by recruitment of the TFIIH complex and subsequent scanning for lesions in the opposite strand in a 5'-to-3' direction by the NER machinery. Cyclobutane pyrimidine dimers (CPDs) which are formed upon UVinduced DNA damage esacpe detection by the XPC complex due to a low degree of structural perurbation. Instead they are detected by the UV-DDB complex which in turn recruits and cooperates with the XPC complex in the respective DNA repair. In vitro, the XPC:RAD23B dimer is sufficient to initiate NER; it preferentially binds to cisplatin and UV-damaged double-stranded DNA and also binds to a variety of chemically and structurally diverse DNA adducts. XPC:RAD23B contacts DNA both 5' and 3' of a cisplatin lesion with a preference for the 5' side. XPC:RAD23B induces a bend in DNA upon binding. XPC:RAD23B stimulates the activity of DNA glycosylases TDG and SMUG1.

Multiubiquitin chain receptor involved in modulation of proteasomal degradation. Binds to 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. May play a role in endoplasmic reticulum-associated degradation (ERAD) of misfolded glycoproteins by association with PNGase and delivering deglycosylated proteins to the proteasome.

Involved in global genome nucleotide excision repair (GG-NER) by acting as component of the XPC complex. Cooperatively with CETN2 appears to stabilize XPC. May protect XPC from proteasomal degradation.

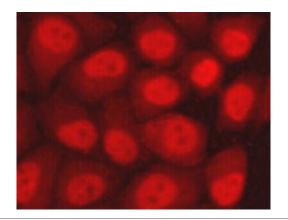
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Research Area
Calculated Mw
Cellular Localization

Nucleus. Cytoplasm. Note: The intracellular distribution is cell cycle dependent. Localized to the nucleus and the cytoplasm during G1 phase. Nuclear levels decrease during S-phase; upon entering mitosis, relocalizes in the cytoplasm without association with chromatin.

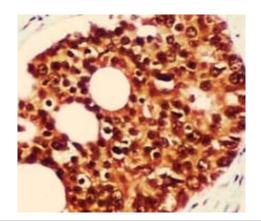
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arigo, nuts about antibodies



ARG54153 anti-hHR23b antibody ICC/IF image

Immunofluorescence: HeLa cells fixed with 4% Paraformaldehyde and stained with ARG54153 anti-hHR23b antibody at 1:100 dilution.



ARG54153 anti-hHR23b antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostate cancer stained with ARG54153 anti-hHR23b antibody at 1:100 dilution. Antigen Retrieval: Pressure cooking was performed in Citrate buffer (pH 6.0).



ARG54153 anti-hHR23b antibody WB image

Western blot: K562 cell lysate stained with ARG54153 anti-hHR23b antibody at 1:1000 dilution.