abcam

Product datasheet

Anti-hHR23b antibody ab86781

1 References 3 图像

概述

产品名称	Anti-hHR23b抗体
描述	**兔多克隆抗体**to hHR23b
宿主	Rabbit
经测试应用	**适用于:** WB, IP, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Tilapia, Orangutan, Platypus
免疫原	Synthetic peptide, corresponding to a region within amino acids 359-409 of Human hHR23b (NP_002865.1)
阳性对照	HeLa whole cell lysate NIH3T3 whole cell lysate

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab86781** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/2000 - 1/10000. Predicted molecular weight: 43 kDa.

应用	Ab评论	说明
IP		Use at 10 µg/mg of lysate.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能

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 endoplasmatic 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.
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 UV-induced 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.

序列相似性

Belongs to the RAD23 family.
Contains 1 STI1 domain.
Contains 2 UBA domains.
Contains 1 ubiquitin-like domain.

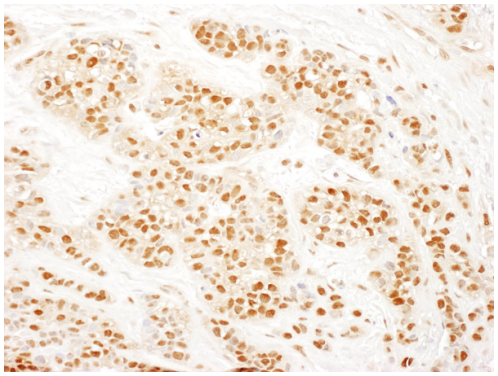
结构域

The ubiquitin-like domain mediates interaction with ATXN3.

细胞定位

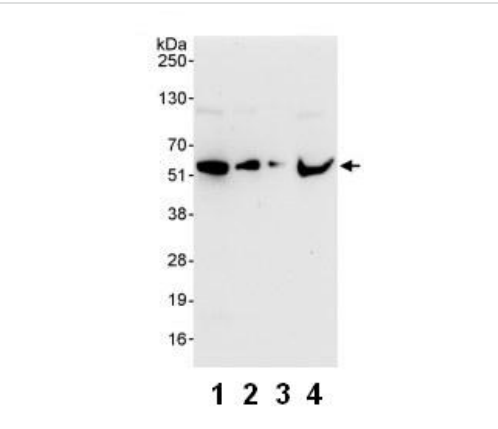
Nucleus. Cytoplasm. The intracellular distribution is cell cycle dependent. Localized to the nucleus and the cytoplasm during G1 phase. Nuclear levels decrease during S-phase; upon entering mitosis, relocalizes in the cytoplasm without association with chromatin.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hHR23b antibody (ab86781)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue labelling hHR23b with ab86781 at 1/1000 (0.2 µg/ml). Detection: DAB.



Western blot - Anti-hHR23b antibody (ab86781)

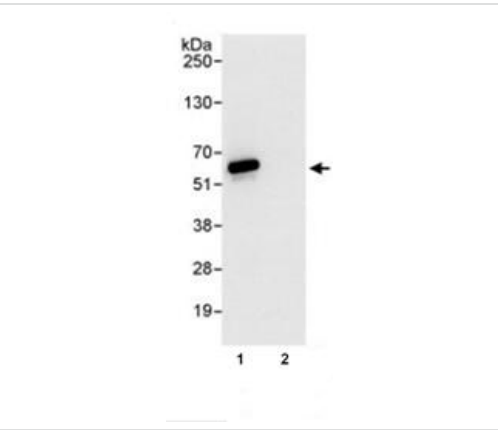
All lanes : Anti-hHR23b antibody (ab86781) at 0.04 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg
Lane 2 : HeLa whole cell lysate at 15 µg
Lane 3 : HeLa whole cell lysate at 5 µg
Lane 4 : NIH3T3 whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 43 kDa

Exposure time: 30 seconds



Immunoprecipitation - Anti-hHR23b antibody (ab86781)

1 mg HeLa whole cell lysate was immunoprecipitated with 10 µg ab86781 (lane 1) or control IgG (lane 2). 20% of the immunoprecipitate was subjected to Western blotting and labelled with ab86781 at 0.4 µg/ml. Bands were detected by chemiluminescence with an exposure time of 3 seconds.

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