abcam

Product datasheet

Anti-hHR23A antibody [EPR4817] ab108591

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-hHR23A antibody [EPR4817]
Description	Rabbit monoclonal [EPR4817] to hHR23A
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF or IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK293T, MCF7, Jurkat, Raji and HeLa cell lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant

Clonality	Monoclonal
Clone number	EPR4817
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108591 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 40 kDa.

Application notes Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

Target

Function 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.
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.

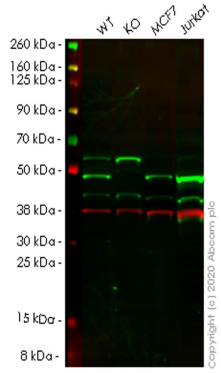
Sequence similarities Belongs to the RAD23 family.
Contains 2 UBA domains.
Contains 1 ubiquitin-like domain.

Domain 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.

Post-translational modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Nucleus.

Images



Western blot - Anti-hHR23A antibody [EPR4817] (ab108591)

All lanes : Anti-hHR23A antibody [EPR4817] (ab108591) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : RAD23A knockout HEK293T cell lysate
Lane 3 : MCF7 cell lysate
Lane 4 : Jurkat cell lysate

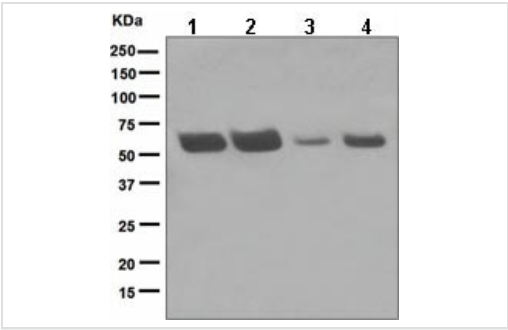
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 40 kDa
Observed band size: 50 kDa

Lanes 1-4: Merged signal (red and green). Green - ab108591 observed at 50 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab108591 Anti-hHR23A antibody [EPR4817] was shown to specifically react with hHR23A in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266343** (knockout cell lysate **ab258163**) was used. Wild-type and hHR23A knockout samples were subjected to SDS-PAGE. ab108591 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-hHR23A antibody [EPR4817] (ab108591)

All lanes : Anti-hHR23A antibody [EPR4817] (ab108591) at 1/1000 dilution

Lane 1 : MCF7 cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : Raji cell lysate
Lane 4 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 40 kDa

Anti-hHR23A antibody [EPR4817] (ab108591)

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