


Product datasheet

Anti-hHR23A antibody [EPR4818] - BSA and Azide free ab247690

Recombinant RabMAb

[3 Images](#)

Overview

Product name	Anti-hHR23A antibody [EPR4818] - BSA and Azide free
Description	Rabbit monoclonal [EPR4818] to hHR23A - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB Unsuitable for: ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab247690 is the carrier-free version of ab108592.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR4818
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247690 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
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 40 kDa.

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

Target

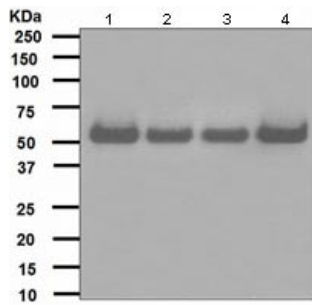
Function	<p>Multiubiquitin chain receptor involved in modulation of proteasomal degradation. Binds to 'Lys-48'-linked polyubiquitin chains in a length-dependent manner and with a lower affinity to 'Lys-63'-linked polyubiquitin chains. Proposed to be capable to bind simultaneously to the 26S proteasome and to polyubiquitinated substrates and to deliver ubiquitinated proteins to the proteasome.</p> <p>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.</p> <p>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.</p>
Sequence similarities	<p>Belongs to the RAD23 family.</p> <p>Contains 2 UBA domains.</p> <p>Contains 1 ubiquitin-like domain.</p>
Domain	<p>The ubiquitin-like domain mediates interaction with ATXN3.</p> <p>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.</p>
Post-translational	Phosphorylated upon DNA damage, probably by ATM or ATR.

modifications

Cellular localization

Nucleus.

Images



Western blot - Anti-hHR23A antibody [EPR4818] - BSA and Azide free (ab247690)

All lanes : Anti-hHR23A antibody [EPR4818] ([ab108592](#)) at 1/10000 dilution

Lane 1 : MCF7 cell lysate

Lane 2 : HeLa cell lysate

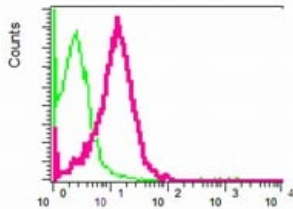
Lane 3 : Raji cell lysate

Lane 4 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 40 kDa

This data was developed using [ab108592](#), the same antibody clone in a different buffer formulation.



Flow Cytometry (Intracellular) - Anti-hHR23A antibody [EPR4818] - BSA and Azide free (ab247690)

This data was developed using [ab108592](#), the same antibody clone in a different buffer formulation.

[ab108592](#) at 1/10 dilution staining hHR23A in permeabilized Jurkat cells by intracellular flow cytometry (shown in red). Rabbit IgG (negative) in green.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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