


Product datasheet

Anti-BRCC36 antibody [EPR4365] ab108295

KO VALIDATED Recombinant RabMAB

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Overview

Product name	Anti-BRCC36 antibody [EPR4365]
Description	Rabbit monoclonal [EPR4365] to BRCC36
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt or IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HAP1, MCF7, SKBR3, 293T, Human fetal kidney and HeLa whole cell lysate (ab150035).
General notes	<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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.31% Sodium citrate, 0.175% Sodium chloride, 0.0172% EDTA, 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4365

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab108295 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: 36 kDa.

Application notes

Is unsuitable for Flow Cyt or IHC-P.

Target

Function

Metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains (PubMed:19214193, PubMed:20656690, PubMed:24075985, PubMed:26344097). Does not have activity toward 'Lys-48'-linked polyubiquitin chains. Component of the BRCA1-A complex, a complex that specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). In the BRCA1-A complex, it specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX, antagonizing the RNF8-dependent ubiquitination at double-strand breaks (DSBs) (PubMed:20656690). Catalytic subunit of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates (PubMed:20656690, PubMed:24075985, PubMed:26344097, PubMed:26195665). Mediates the specific 'Lys-63'-specific deubiquitination associated with the COP9 signalosome complex (CSN), via the interaction of the BRISC complex with the CSN complex (PubMed:19214193). The BRISC complex is required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1 (PubMed:26195665). Plays a role in interferon signaling via its role in the deubiquitination of the interferon receptor IFNAR1; deubiquitination increases IFNAR1 activity by enhancing its stability and cell surface expression (PubMed:24075985, PubMed:26344097). Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination (PubMed:24075985).

Tissue specificity

Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Aberrantly expressed in the vast majority of breast tumors.

Involvement in disease

A chromosomal aberration involving BRCC3 is a cause of pro-lymphocytic T-cell leukemia (T-PLL). Translocation t(X;14)(q28;q11) with TCRA.

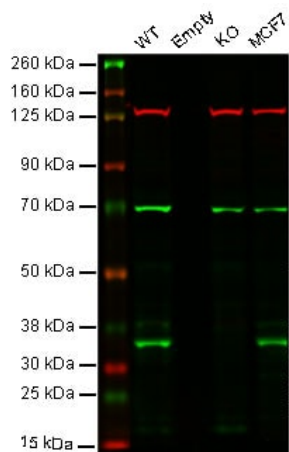
Sequence similarities

Belongs to the peptidase M67A family. BRCC36 subfamily.
Contains 1 MPN (JAB/Mov34) domain.

Cellular localization

Nucleus. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole. Localizes at sites of DNA damage at double-strand breaks (DSBs) (PubMed:20656690, PubMed:26344097). Interaction with FAM175B/ABRO1 retains BRCC3 in the cytoplasm (PubMed:20656690).

Images



Western blot - Anti-BRCC36 antibody [EPR4365]
(ab108295)

Lane 1: Wild type HAP1 whole cell lysate (40 µg)

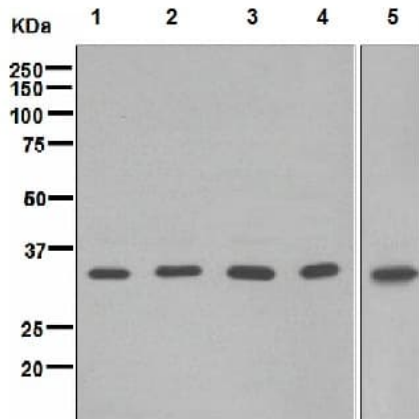
Lane 2: Empty Lane

Lane 3: BRCC36 knockout HAP1 whole cell lysate (40 µg)

Lane 4: MCF7 whole cell lysate (40 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab108295 observed at 36 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab108295 was shown to recognize empty when empty knockout samples were used, along with additional cross-reactive bands. Wild-type and empty knockout samples were subjected to SDS-PAGE. Ab108295 and **ab18058** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-BRCC36 antibody [EPR4365]
(ab108295)

All lanes : Anti-BRCC36 antibody [EPR4365] (ab108295) at 1/1000 dilution

Lane 1 : MCF7 cell lysate

Lane 2 : SKBR3 cell lysate

Lane 3 : 293T cell lysate

Lane 4 : Human fetal kidney lysate

Lane 5 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 36 kDa

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

Anti-BRCC36 antibody [EPR4365] (ab108295)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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