


Product datasheet

Anti-BRCC36 antibody [EPR4366] ab108411

KO VALIDATED Recombinant RabMAB

[4 References](#) [4 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-BRCC36 antibody [EPR4366] |
| Description | Rabbit monoclonal [EPR4366] to BRCC36 |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, Flow Cyt (Intra) Unsuitable for: ICC/IF or IHC-P |
| Species reactivity | Reacts with: Mouse, Human Predicted to work with: Rat  |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: HeLa, MCF7, SKBR-3, HAP1 and 293T cell lysates Flow Cyt (intra): permeabilized HeLa cells |
| General notes | This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 . |

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: 0.05% 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 EPR4366
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108411 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 | | 1/10000 - 1/50000. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa). |
| Flow Cyt (Intra) | | 1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

Application notes Is unsuitable for ICC/IF 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).

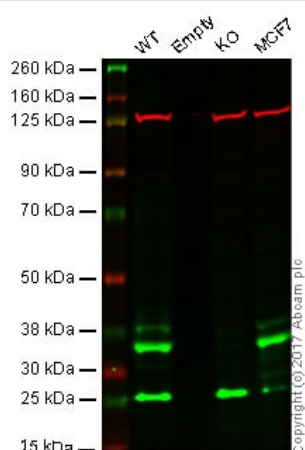
Tissue specificity Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Aberrantly expressed in the vast majority of breast tumors.

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 [EPR4366]
(ab108411)

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

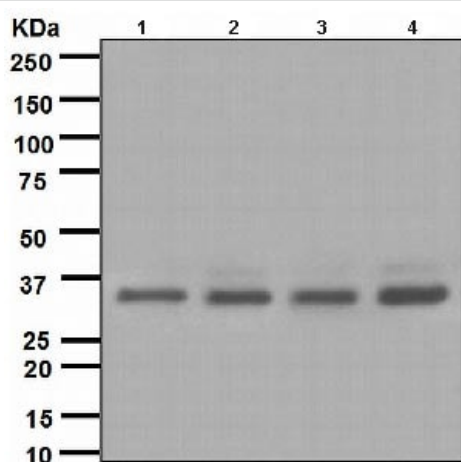
Lane 2: Empty Lane

Lane 3: BRCC3 knockout HAP1 whole cell lysate (40 µg)

Lane 4: MCF7 whole cell lysate (40 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab108411 observed at 36 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab108411 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. Ab108411 and **ab18058** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 10000 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 [EPR4366]
(ab108411)

All lanes : Anti-BRCC36 antibody [EPR4366] (ab108411) at 1/10000 dilution

Lane 1 : HeLa cell lysate

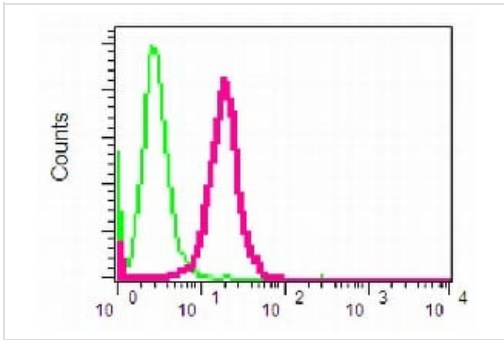
Lane 2 : MCF7 cell lysate

Lane 3 : SKBR-3 cell lysate

Lane 4 : 293T cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 36 kDa



Intracellular flow cytometric analysis of BRCC36 in permeabilized HeLa cells, using ab108411 at a 1/100 dilution (red) or a Rabbit IgG (negative) (green).

Flow Cytometry (Intracellular) - Anti-BRCC36 antibody [EPR4366] (ab108411)

Why choose a recombinant antibody?

| | |
|--|--|
|  <p>Research with confidence Consistent and reproducible results</p> |  <p>Long-term and scalable supply Recombinant technology</p> |
|  <p>Success from the first experiment Confirmed specificity</p> |  <p>Ethical standards compliant Animal-free production</p> |

Anti-BRCC36 antibody [EPR4366] (ab108411)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors