

Product datasheet

Anti-Rad17 (phospho S656) antibody [EPR3145] - BSA and Azide free ab247429

Recombinant RabMAb

[4 Images](#)

Overview

Product name	Anti-Rad17 (phospho S656) antibody [EPR3145] - BSA and Azide free
Description	Rabbit monoclonal [EPR3145] to Rad17 (phospho S656) - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab247429 is the carrier-free version of ab76012.</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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with</p>

these species. Please contact us for more information.

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	Protein A purified
Clonality	Monoclonal
Clone number	EPR3145
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247429 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 77 kDa.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt or IP.

Target

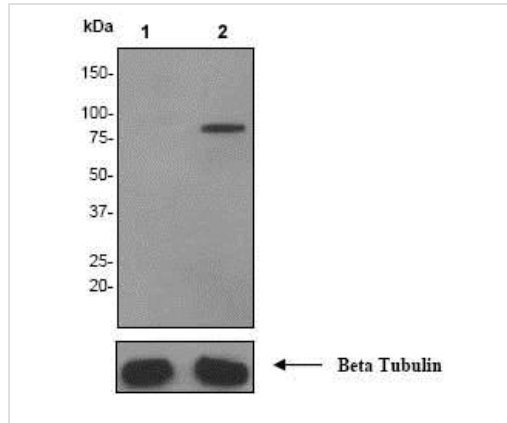
Function	Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage. Has a weak ATPase activity required for binding to chromatin. Participates in the recruitment of the RAD1-RAD9-HUS1 complex onto chromatin, and in CHEK1 activation. May also serve as a sensor of DNA replication progression, and may be involved in homologous recombination.
Tissue specificity	Overexpressed in various cancer cell lines and in colon carcinoma (at protein level). Isoform 2 and isoform 3 are the most abundant isoforms in non irradiated cells (at protein level). Ubiquitous at low levels. Highly expressed in testis, where it is expressed within the germinal epithelium of the seminiferous tubuli. Weakly expressed in seminomas (testicular tumors).
Sequence similarities	Belongs to the rad17/RAD24 family.
Post-translational modifications	Phosphorylated. Phosphorylation on Ser-646 and Ser-656 is cell cycle-regulated, enhanced by genotoxic stress, and required for activation of checkpoint signaling. Phosphorylation is mediated

by ATR upon UV or replication arrest, whereas it may be mediated both by ATR and ATM upon ionizing radiation. Phosphorylation on both sites is required for interaction with RAD1 but dispensable for interaction with RFC3 or RFC4.

Cellular localization

Nucleus. Phosphorylated form redistributes to discrete nuclear foci upon DNA damage.

Images



Western blot - Anti-Rad17 (phospho S656) antibody [EPR3145] - BSA and Azide free (ab247429)

All lanes : Anti-Rad17 (phospho S656) antibody [EPR3145] ([ab76012](#)) at 1/10000 dilution

Lane 1 : HeLa cell lysate, untreated

Lane 2 : HeLa cell lysate treated with Calyculin A

Lysates/proteins at 10 µg per lane.

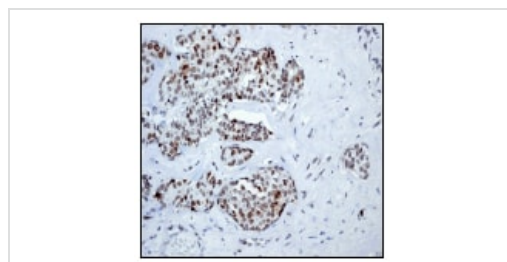
Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 77 kDa

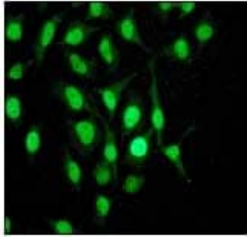
Observed band size: 80 kDa

This data was developed using [ab76012](#), the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad17 (phospho S656) antibody [EPR3145] - BSA and Azide free (ab247429)

This data was developed using [ab76012](#), the same antibody clone in a different buffer formulation. [ab76012](#), at 1/100-1/250 dilution, staining Rad17 in human breast carcinoma by immunohistochemistry using paraffin-embedded tissue. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



This data was developed using **ab76012**, the same antibody clone in a different buffer formulation. **ab76012**, at 1/100-1/250 dilution, staining Rad17 in HeLa cells by immunofluorescence.

Immunocytochemistry/ Immunofluorescence - Anti-Rad17 (phospho S656) antibody [EPR3145] - BSA and Azide free (ab247429)

Why choose a recombinant antibody?



Anti-Rad17 (phospho S656) antibody [EPR3145] - BSA and Azide free (ab247429)

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

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