

Product datasheet

Anti-Rif1 antibody - C-terminal ab229656

5 Images

Overview

Product name	Anti-Rif1 antibody - C-terminal
Description	Rabbit polyclonal to Rif1 - C-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, IP, ICC/IF, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human Rif1 (C terminal). The exact sequence is proprietary. Database link: Q5UIP0
Positive control	WB: HEK-293T, A431, HeLa and HepG2 whole cell extracts. IP: HeLa whole cell extract. IHC-P: Human breast carcinoma and cervical carcinoma tissues. ICC/IF: HeLa cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin Constituents: PBS, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab229656** 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		1/500 - 1/3000. Predicted molecular weight: 274 kDa.

Application	Abreviews	Notes
IP		1/100 - 1/500.
ICC/IF		1/100 - 1/1000.
IHC-P		1/100 - 1/1000.

Target

Function

Required for checkpoint mediated arrest of cell cycle progression in response to DNA damage during S-phase (the intra-S-phase checkpoint). This checkpoint requires activation of at least 2 parallel pathways by the ATM kinase: one involves the MRN (MRE11A-RAD50-NBS1) complex, while the second requires CHEK2. RIF1 seems to act independently of both these pathways. Seems to play no role in either the G1/S or G2/M DNA damage checkpoints.

Tissue specificity

Highly expressed in testis.

Developmental stage

Expression peaks in late G2/S phase of the cell cycle.

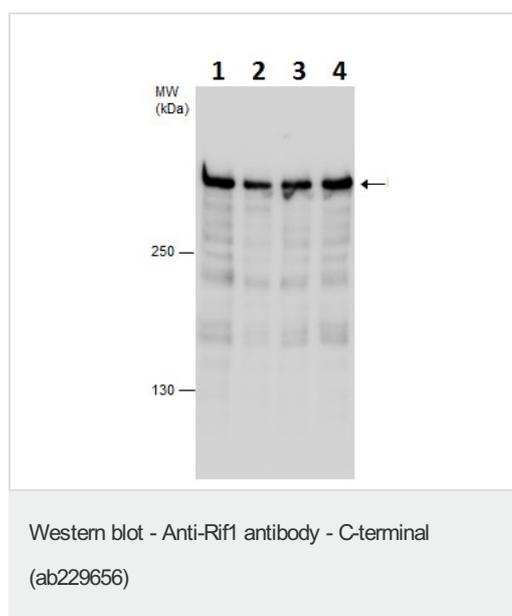
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Nucleus. Chromosome > telomere. Cytoplasm > cytoskeleton > spindle. Exhibits ATM- and TP53BP1-dependent localization to uncapped or aberrant telomeres and to DNA double strand breaks (DSBs). Does not associate with normal telomere structures. Localizes to microtubules of the midzone of the mitotic spindle during anaphase, and to condensed chromosomes in telophase.

Images



All lanes : Anti-Rif1 antibody - C-terminal (ab229656) at 1/2000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell extract

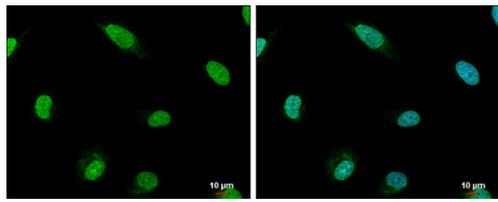
Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract

Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

Predicted band size: 274 kDa

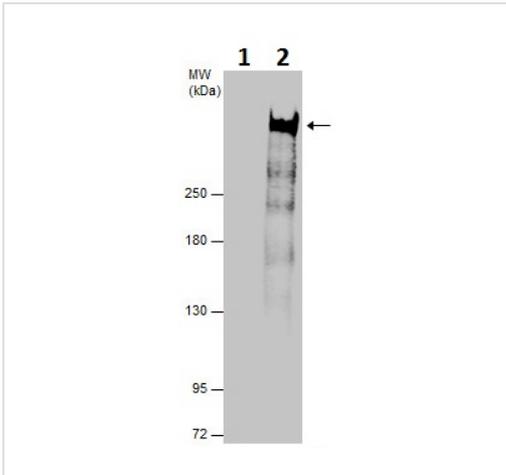
5% SDS-PAGE gel.



Immunocytochemistry/ Immunofluorescence - Anti-Rif1 antibody - C-terminal (ab229656)

4% paraformaldehyde fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for Rif1 (green) using ab229656 at 1/500 dilution in ICC/IF.

Blue: Hoechst 33342 staining.

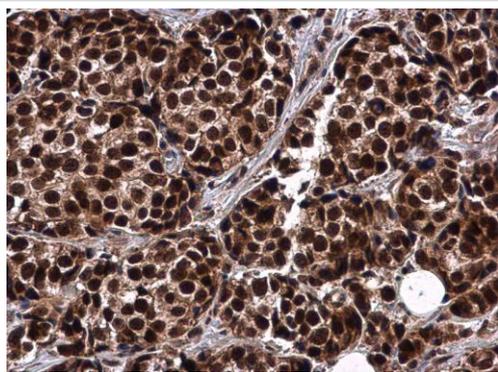


Immunoprecipitation - Anti-Rif1 antibody - C-terminal (ab229656)

Rif1 was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract with 5 µg ab229656. Western blot was performed from the immunoprecipitate using ab229656. Anti-rabbit IgG was used as secondary antibody.

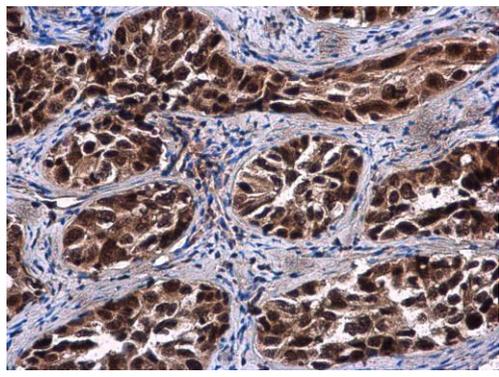
Lane 1: Control IgG IP instead of ab229656 in HeLa whole cell extract.

Lane 2: ab229656 IP in HeLa whole cell extract.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rif1 antibody - C-terminal (ab229656)

Paraffin-embedded human breast carcinoma tissue stained for Rif1 using ab229656 at 1/500 dilution in immunohistochemical analysis.



Paraffin-embedded human cervical carcinoma tissue stained for Rif1 using ab229656 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rif1 antibody - C-terminal (ab229656)

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