


Product datasheet

Anti-Rif1 antibody ab70254

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Overview

Product name	Anti-Rif1 antibody
Description	Rabbit polyclonal to Rif1
Host species	Rabbit
Specificity	Reactivity with mouse Rif1 is not expected owing to divergence of sequence between this ortholog and human Rif1 at the site to which the epitope maps.
Tested applications	Suitable for: IHC-P, IP
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Rhesus monkey, Orangutan 
Immunogen	Synthetic peptide corresponding to a region between residues 1 and 50 of human Rif1 (NP_060621.3)
Positive control	Whole cell lysate from 293T cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab70254 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		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use at 1-5 µg/mg of lysate.

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.

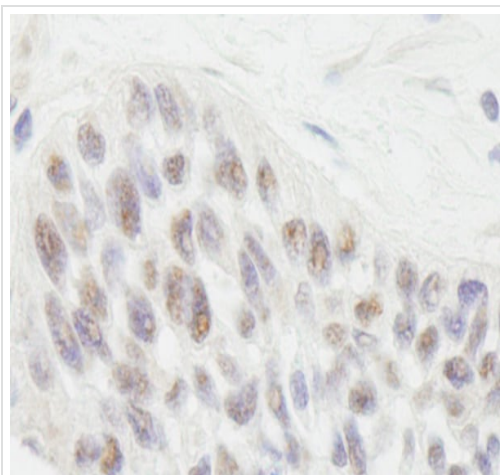
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

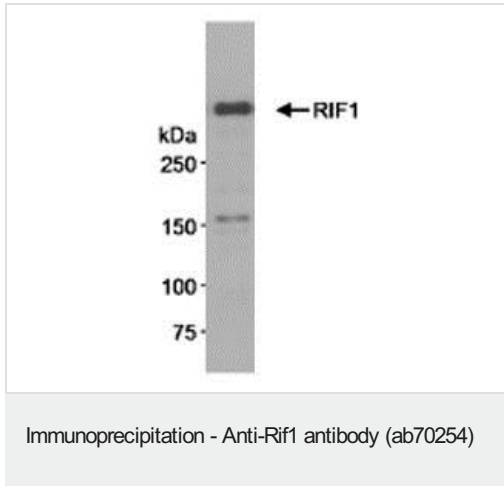
Nucleus. Chromosome > telomere. Cytoplasm > cytoskeleton > spindle. Exhibits ATM- and TP53BP1-dependent localization to uncapped or aberrant telomeres and to DNA double strand breaks (DSBs). Does not associate with normal telomere structures. Localizes to microtubules of the midzone of the mitotic spindle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

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human laryngeal squamous cell carcinoma tissue labelling Rif1 with ab70254 at 1/1000 (1 µg/ml). Detection: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rif1 antibody (ab70254)



Immunoprecipitation analysis of 293T whole cell lysate (1 mg for IP, 25% of reaction loaded), using ab70254 at 5 µg/mg lysate for IP. Immunoprecipitated Rif1 was blotted using **ab70307** at 0.4 µg/ml.

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

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