

Product datasheet

Anti-p107 antibody ab244504

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Overview

Product name	Anti-p107 antibody
Description	Rabbit polyclonal to p107
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human p107 aa 550-650. Database link: P28749 Run BLAST with Run BLAST with
Positive control	IHC-P: Human testis, colon and kidney tissues. WB: U-251 MG cell lysate. ICC/IF: HeLa 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. 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: 7.20 Preservative: 0.02% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab244504 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		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★ ★ ★ ★ ★ (1)	Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 121 kDa. Block in 100pc LICOR. Blocking in Milk does not work.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

Target

Function

Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases SUV420H1 and SUV420H2, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation. Forms a complex with adenovirus E1A and with SV40 large T antigen. May bind and modulate functionally certain cellular proteins with which T and E1A compete for pocket binding. May act as a tumor suppressor.

Sequence similarities

Belongs to the retinoblastoma protein (RB) family.

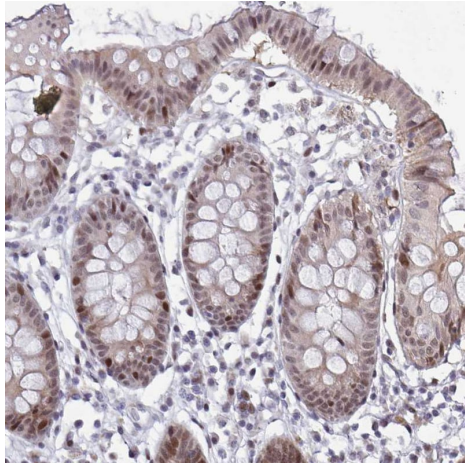
Post-translational modifications

Exists in both phosphorylated and unphosphorylated forms, and T, but not E1A, binds only to the unphosphorylated form. Cell-cycle arrest properties are inactivated by phosphorylation on Thr-332, Ser-640, Ser-964 and Ser-975 by CDK4.

Cellular localization

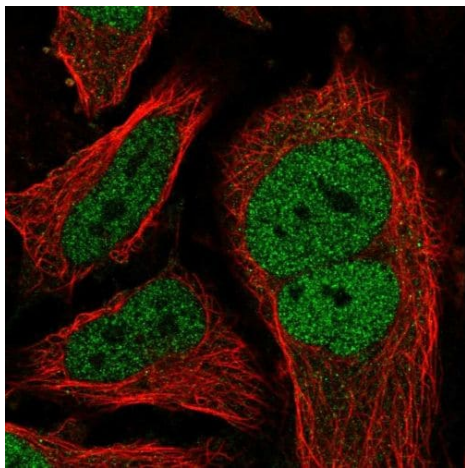
Nucleus.

Images



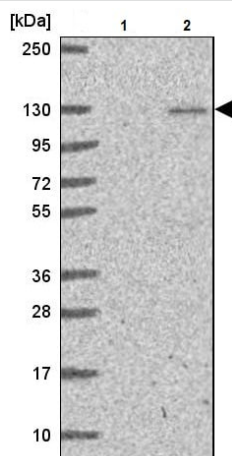
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p107 antibody (ab244504)

Paraffin-embedded human colon tissue stained for p107 using ab244504 at 1/500 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-p107 antibody (ab244504)

PFA-fixed, Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma cells) stained for p107 (green) using ab244504 at 4 µg/ml in ICC/IF.



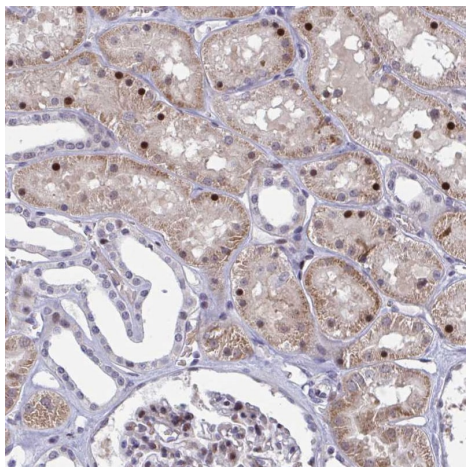
Western blot - Anti-p107 antibody (ab244504)

All lanes : Anti-p107 antibody (ab244504) at 0.4 µg/ml

Lane 1 : RT4 (human urinary bladder cancer cell line) cell lysate

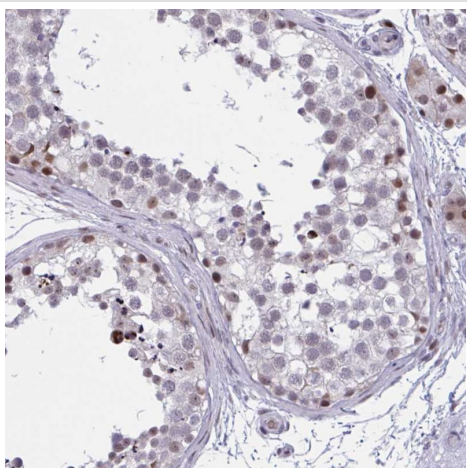
Lane 2 : U-251 MG (human brain glioma cell line) cell lysate

Predicted band size: 121 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p107 antibody (ab244504)

Paraffin-embedded human kidney tissue stained for p107 using ab244504 at 1/500 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p107 antibody (ab244504)

Paraffin-embedded human testis tissue stained for p107 using ab244504 at 1/500 dilution in immunohistochemical analysis.

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

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