


Product datasheet

Anti-HURP antibody ab70744

1 References 4 Images

Overview

Product name	Anti-HURP antibody
Description	Rabbit polyclonal to HURP
Tested applications	Suitable for: ICC/IF, IHC-P, WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Gorilla 
Immunogen	Synthetic peptide corresponding to a region between residue 800 and the C-terminus (residue 846) of Human HURP (NP_055565.2).
Positive control	HeLa and 293T whole cell lysates. This antibody gave a positive result in IHC in the following FFPE tissue: Human Testis. IF/ICC: A549 cell line.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab70744** 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
ICC/IF		
IHC-P		

Application	Abreviews	Notes
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WB

IP

Application notes

IP: Use at 2-5µg/mg of lysate.
 WB: 1/2000 - 1/10000. Detects a band of approximately 120 kDa (predicted molecular weight: 94 kDa).

Not yet tested in other applications.
 Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Potential cell cycle regulator that may play a role in carcinogenesis of cancer cells. Mitotic phosphoprotein regulated by the ubiquitin-proteasome pathway. Key regulator of adherens junction integrity and differentiation that may be involved in CDH1-mediated adhesion and signaling in epithelial cells.

Tissue specificity

Abundantly expressed in fetal liver. Expressed at lower levels in bone marrow, testis, colon, and placenta.

Sequence similarities

Belongs to the SAPAP family.

Developmental stage

Elevated levels of expression detected in the G2/M phase of synchronized cultures of HeLa cells.

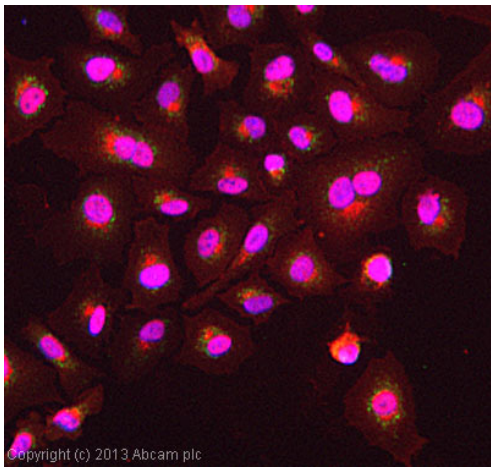
Post-translational modifications

Ubiquitinated, leading to its degradation.
 Phosphorylated upon DNA damage, probably by ATM or ATR. Decreased phosphorylation levels are associated with the differentiation of intestinal epithelial cells.

Cellular localization

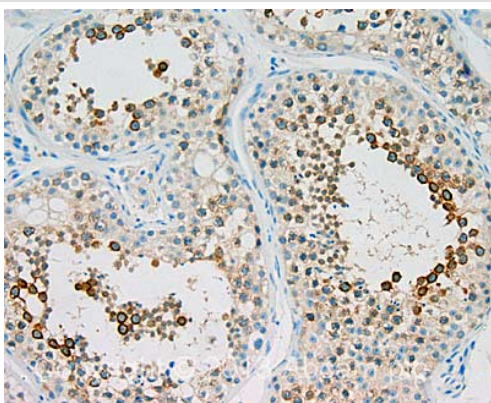
Nucleus. Cytoplasm. Cytoplasm > cytoskeleton > spindle. Localizes to the spindle in mitotic cells. Colocalizes with CDH1 at sites of cell-cell contact in intestinal epithelial cells.

Images



Immunocytochemistry/ Immunofluorescence - Anti-HURP antibody (ab70744)

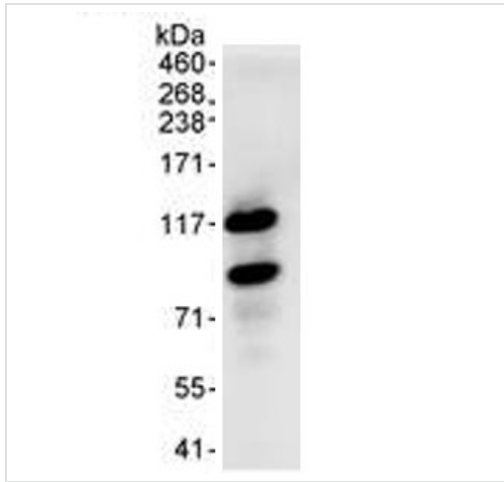
ICC/IF image of ab70744 stained A549 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab70744, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HURP antibody (ab70744)

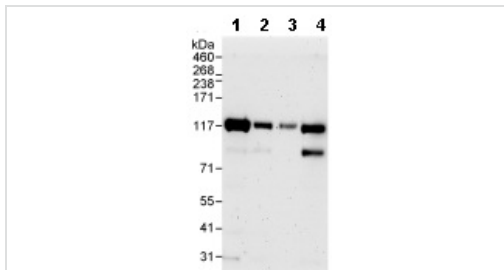
IHC image of HURP staining in Human Testis formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab70744, 1 µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunoprecipitation - HURP antibody (ab70744)

Detection of HURP by Western Blot of Immunoprecipitate. ab70744 at 1µg/ml staining HURP in HeLa whole cell lysate immunoprecipitated using ab70744 at 3µg/mg lysate (1 mg/IP; 20% of IP loaded/lane). Chemiluminescence with exposure time of 10 seconds.



Western blot - HURP antibody (ab70744)

All lanes : Anti-HURP antibody (ab70744) at 0.04 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg

Lane 2 : HeLa whole cell lysate at 15 µg

Lane 3 : HeLa whole cell lysate at 5 µg

Lane 4 : 293T whole cell lysate at 50 µg

Predicted band size : 94 kDa

Observed band size : 120 kDa

Exposure time : 3 minutes

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