abcam

Product datasheet

Anti-RENT1/hUPF1 antibody ab86057

5 References 2 Images

Overview

Product name Anti-RENT1/hUPF1 antibody

Description Rabbit polyclonal to RENT1/hUPF1

Host species Rabbit

Tested applications Suitable for: WB, IP

Species reactivity Reacts with: Mouse, Human

Predicted to work with: Rat, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Xenopus

laevis, Zebrafish, Rhesus monkey, Gorilla, Orangutan, Xenopus tropicalis, Medaka fish

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control HeLa and NIH3T3 whole cell lysates.

General notes

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.

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

Properties

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer pH: 6.8

Preservative: 0.09% Sodium azide

Constituents: 0.1% BSA, Tris buffered saline

Purity Immunogen affinity purified

Purification notes ab86057 was affinity purified using an epitope specific to RENT1/hUPF1 immobilized on solid

support.

Clonality Polyclonal

Isotype IgG

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Applications

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab86057 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		1/2000 - 1/10000. Detects a band of approximately 134 kDa (predicted molecular weight: 134 kDa).
IP		Use at 2-5 µg/mg of lysate.

Target

Function

Plays a role in replication-dependent histone mRNA degradation at the end of phase S. Part of a post-splicing multiprotein complex. Involved in nonsense-mediated decay (NMD) as part of the SMG1C complex, a mRNA surveillance complex that recognizes and degrades mRNAs containing premature translation termination codons (PTCs). The complex probably acts by associating with ribosomes during tranlation termination on mRNPs. If an exon junction complex (EJC) is located 50-55 or more nucleotides downstream from the termination codon, RENT1 is phosphorylated by SMG1, triggering nonsense-mediated decay (NMD). Essential for embryonic viability.

All lanes: Anti-RENT1/hUPF1 antibody (ab86057) at 0.04 µg/ml

Tissue specificity Ubiquitous.

Sequence similarities Belongs to the DNA2/NAM7 helicase family.

Contains 1 C2H2-type zinc finger.

Domain The [ST]-Q motif constitutes a recognition sequence for kinases from the PI3/PI4-kinase family.

Post-translational Phosphorylated by SMG1; required for formation of mRNA surveillance complexes.

modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization Cytoplasm. Cytoplasm > P-body. Hyperphosphorylated form is targeted to the P-body, while

unphosphorylated protein is distributed throughout the cytoplasm.

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: NIH3T3 whole cell lysate at 50 µg

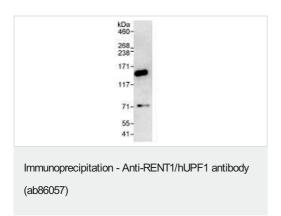
Images



Western blot - Anti-RENT1/hUPF1 antibody (ab86057)

Predicted band size: 134 kDa Observed band size: 134 kDa

Exposure time: 10 seconds



Detection of RENT1/hUPF1 by Western Blot of Immunprecipitate. ab86057 at 1 μ g/ml staining RENT1/hUPF1 in HeLa whole cell lysate immunoprecipitated using ab86057 at 3 μ g/mg lysate (1 mg/IP; 20% of IP loaded/lane).

Detection: Chemiluminescence with exposure time of 10 seconds.

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

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