


## Product datasheet

# Anti-RENT1/hUPF1 antibody ab10510

★★★★★ 2 Abreviews 3 References 1 Image

### Overview

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<b>Product name</b>	Anti-RENT1/hUPF1 antibody
<b>Description</b>	Goat polyclonal to RENT1/hUPF1
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<p><b>Reacts with:</b> Human</p> <p><b>Predicted to work with:</b> Mouse, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Xenopus laevis, Chimpanzee, Drosophila melanogaster, Zebrafish, Rhesus monkey, Gorilla, Orangutan, Xenopus tropicalis, Platypus </p>
<b>Immunogen</b>	Immunogen was a synthetic peptide, to a region between residue 250 and 300 of human Regulator of Nonsense Transcripts 1 (up-frameshift mutation 1 homolog) using the numbering given in entry NP_002902.2 (GeneID 5976).
<b>Positive control</b>	Whole cell lysate from lymphoblastoid cell lines (EBV-immortalized B-cell from a normal individual).
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>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, as well as customer reviews and Q&amp;As.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Antibodies were affinity purified using the peptide immobilized on solid support.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab10510** 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	★★★★★	1/1000 - 1/2500. Detects a band of approximately 140 kDa (predicted molecular weight: 134 kDa).

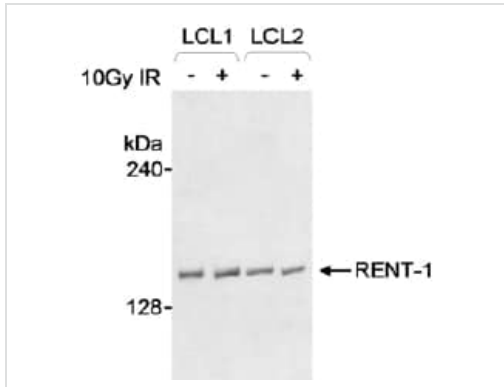
## Target

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<b>Function</b>	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 translation 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.
<b>Tissue specificity</b>	Ubiquitous.
<b>Sequence similarities</b>	Belongs to the DNA2/NAM7 helicase family. Contains 1 C2H2-type zinc finger.
<b>Domain</b>	The [ST]-Q motif constitutes a recognition sequence for kinases from the PI3/PI4-kinase family.
<b>Post-translational modifications</b>	Phosphorylated by SMG1; required for formation of mRNA surveillance complexes. Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Cytoplasm. Cytoplasm > P-body. Hyperphosphorylated form is targeted to the P-body, while unphosphorylated protein is distributed throughout the cytoplasm.

## Images

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Western blot - Anti-RENT1/hUPF1 antibody  
(ab10510)

ab10510 detection of human RENT1 by Western blot. *Samples:* Whole cell lysate (30 µg) from lymphoblastoid cell lines (EBV-immortalized B-cell from a normal individual). *Antibody:* ab10510 used at 1 µg/ml. *Detection:* Chemiluminescence.

ab10510 detection of human RENT1 by Western blot. *Samples:* Whole cell lysate (30 µg) from lymphoblastoid cell lines (EBV-immortalized B-cell from a normal individual). *Antibody:* ab10510 used at 1 µg/ml. *Detection:* Chemiluminescence.

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

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