

Product datasheet

Anti-Rsk 2 / MAPKAP Kinase 1b antibody [Y83] ab32133

KO **VALIDATED** **Recombinant** **RabMAb**

[3 References](#) [4 Images](#)

Overview

Product name	Anti-Rsk 2 / MAPKAP Kinase 1b antibody [Y83]
Description	Rabbit monoclonal [Y83] to Rsk 2 / MAPKAP Kinase 1b
Host species	Rabbit
Specificity	The antibody recognises Rsk2. It does not cross react with other S6 kinase family members.
Tested applications	Suitable for: WB, IHC-P Unsuitable for: ICC
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	A synthetic peptide corresponding to residues near N-terminus of human RSK2
Positive control	HeLa whole cell lysate (ab150035) and human lymphoma
General notes	

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work

with," however this information is not covered by our Abpromise guarantee.

Applications & 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.

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&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: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	IgG fraction
Clonality	Monoclonal
Clone number	Y83
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab32133** 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		1/5000. Detects a band of approximately 90 kDa (predicted molecular weight: 84 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for ICC.

Target

Function	Serine/threonine kinase that may play a role in mediating the growth-factor and stress induced activation of the transcription factor CREB.
Tissue specificity	Expressed in many tissues, highest levels in skeletal muscle.
Involvement in disease	Defects in RPS6KA3 are the cause of Coffin-Lowry syndrome (CLS) [MIM:303600]; an X-linked dominant disorder characterized by severe mental retardation with facial and digital dysmorphisms, and progressive skeletal deformations.
Sequence similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily. Contains 1 AGC-kinase C-terminal domain.

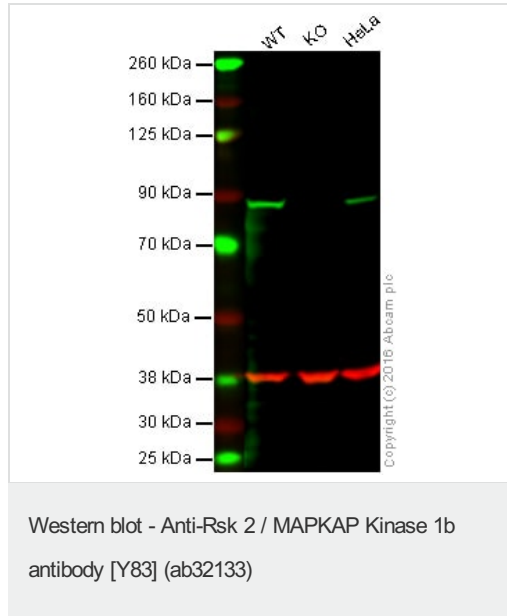
Contains 2 protein kinase domains.

Post-translational modifications

Autophosphorylated on Ser-386, as part of the activation process.

Ser-227 phosphorylation promotes Ser-386 phosphorylation and leads to basal activation. Full activation by growth factors requires additional phosphorylation on Ser-369.

Images



Lane 1: Wild-type HAP1 cell lysate (40 µg)

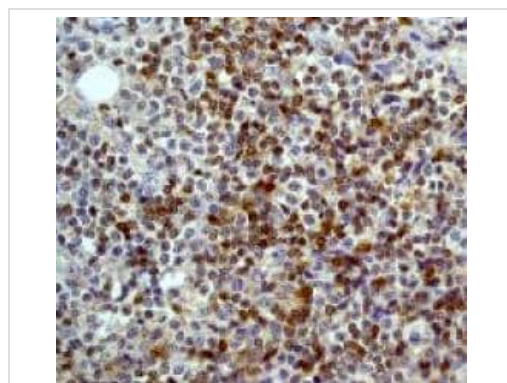
Lane 2: Rsk 2 / MAPKAP Kinase 1b knockout HAP1 cell lysate (40 µg)

Lane 3: HeLa cell lysate (40 µg)

Lane 4: (40 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab32133 observed at 88 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

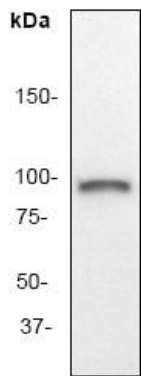
ab32133 was shown to specifically react with Rsk 2 / MAPKAP Kinase 1b when Rsk 2 / MAPKAP Kinase 1b knockout samples were used. Wild-type and Rsk 2 / MAPKAP Kinase 1b knockout samples were subjected to SDS-PAGE. Ab32133 and [ab8245](#) (loading control to GAPDH) were diluted at 1/5000 and 1:10,000 dilution respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed [ab216776](#) secondary antibodies at 1:10,000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rsk 2 / MAPKAP Kinase 1b antibody [Y83] (ab32133)

ab32133, staining human lymphoma by immunohistochemistry, Paraffin embedded tissue

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Anti-Rsk 2 / MAPKAP Kinase 1b antibody [Y83] (ab32133) at 1/5000 dilution + HeLa cell lysate

Predicted band size: 84 kDa

Observed band size: 90 kDa

why is the actual band size different from the predicted?

Western blot - Anti-Rsk 2 / MAPKAP Kinase 1b antibody [Y83] (ab32133)

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-Rsk 2 / MAPKAP Kinase 1b antibody [Y83] (ab32133)

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

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