


Anti-SMG5 antibody ab33033

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Overview

Product name	Anti-SMG5 antibody
Description	Rabbit polyclonal to SMG5
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1000 to the C-terminus of Human SMG5. Read Abcam's proprietary immunogen policy (Peptide available as ab36628 .)
Positive control	Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help. Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab33033 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		1/250. Detects a band of approximately 140 kDa (predicted molecular weight: 114 kDa).
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

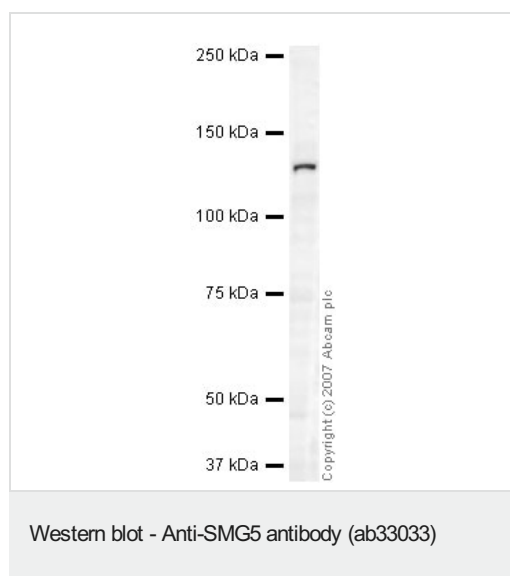
Application notes Is unsuitable for ICC/IF.

Target

Relevance SMG5 plays a role in nonsense mediated mRNA decay. It promotes dephosphorylation of RENT1, and is necessary for TERT activity. It is part of a complex that contains SMG1, SMG5, SMG7, PP2AC, a short isoform of UPF3A (isoform UPF3AS, but not isoform UPF3AL) and phosphorylated RENT1/UPF1.

Cellular localization Cytoplasmic and Nuclear

Images



Anti-SMG5 antibody (ab33033) at 1/250 dilution + Jurkat whole cell lysate ([ab7899](#)) at 10 µg

Secondary

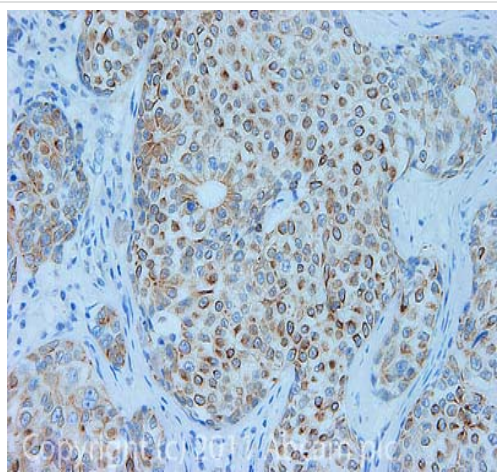
IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 114 kDa

Observed band size: 140 kDa

The band seen at 140 kDa is consistent with the banding pattern observed for other commercially available antibodies to SMG5.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SMG5 antibody (ab33033)

IHC image of ab33033 staining in Human breast adenocarcinoma 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 ab33033, 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.

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