

## Product datasheet

# Anti-SAMD9 antibody ab121664

6 Images

### Overview

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<b>Product name</b>	Anti-SAMD9 antibody
<b>Description</b>	Rabbit polyclonal to SAMD9
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	antigen sequence: MAKQLNLPEN TDDWTKEDVN QWLESHKIDQ KHREILTEQD VNGAVLKWLK KEHLVDMGIT HGPAIQIEEL FKELRKTAIE DS, corresponding to amino acids 1-82 of Human SAMD9. <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	IHC-P: Human tonsil, small intestine, skin, and placenta tissue sections; WB: A431 cell lysate; ICC: A431 cells.
<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: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab121664** in the following tested applications.

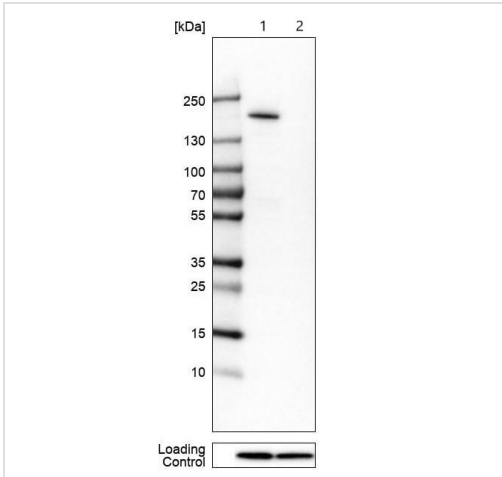
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use a concentration of 0.25 - 2 µg/ml.
WB		Use a concentration of 0.04 - 0.4 µg/ml.
IHC-P		1/50 - 1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Tissue specificity</b>	Widely expressed. Very low levels in skeletal muscle. Not detected in fetal brain. Down-regulated in aggressive fibromatosis, as well as in breast and colon cancers.
<b>Involvement in disease</b>	Defects in SAMD9 are the cause of normophosphatemic familial tumoral calcinosis (NFTC) [MIM:610455]. NFTC is an uncommon life-threatening disorder characterized by massive periarticular, and seldom visceral, deposition of calcified tumors.
<b>Sequence similarities</b>	Contains 1 SAM (sterile alpha motif) domain.
<b>Cellular localization</b>	Cytoplasm.

## Images



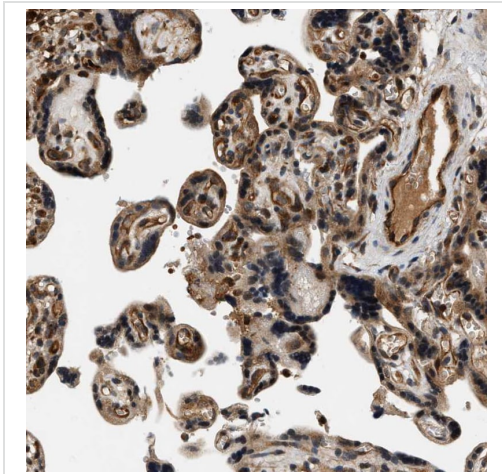
Western blot - Anti-SAMD9 antibody (ab121664)

**All lanes :** Anti-SAMD9 antibody (ab121664) at 0.4  $\mu\text{g/ml}$

**Lane 1 :** A431 (human epidermoid carcinoma cell line) cell lysate

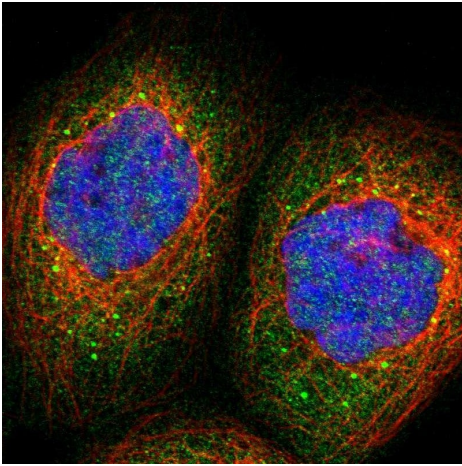
**Lane 2 :** MCF7 (human breast adenocarcinoma cell line) cell lysate

Loading control: Anti-PPIB



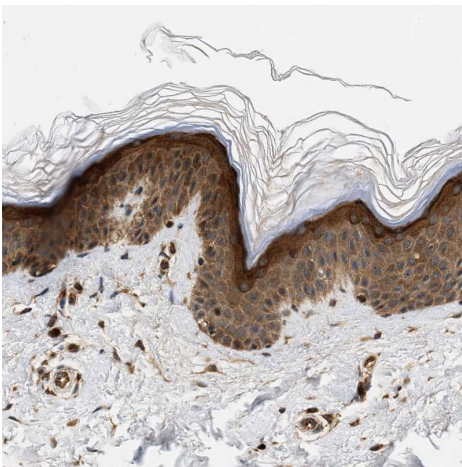
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAMD9 antibody (ab121664)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue labelling SAMD9 with ab121664 at 1/50 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.



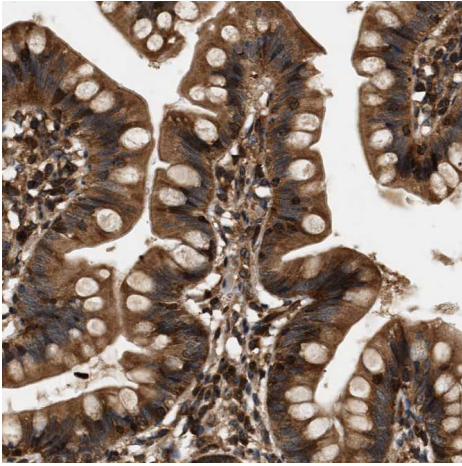
Immunocytochemistry - Anti-SAMD9 antibody  
(ab121664)

Immunocytochemistry analysis of A431 (human epidermoid carcinoma) cells labelling SAMD9 with ab121664 at 2  $\mu\text{g}/\text{mL}$ .



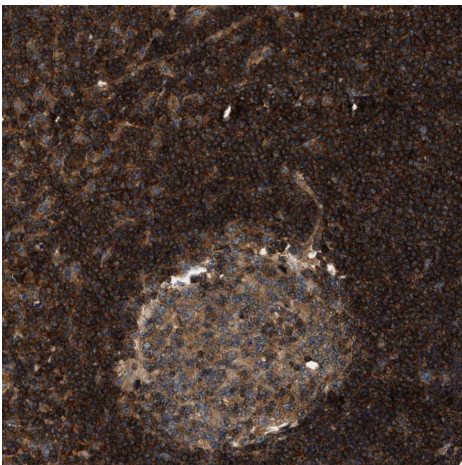
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAMD9 antibody  
(ab121664)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human skin tissue labelling SAMD9 with ab121664 at 1/50 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAMD9 antibody (ab121664)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human small intestine tissue labelling SAMD9 with ab121664 at 1/50 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAMD9 antibody (ab121664)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling SAMD9 with ab121664 at 1/50 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.

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

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