

## Product datasheet

# Anti-SCAI antibody [EPR4128] ab124688

Recombinant RabMAb

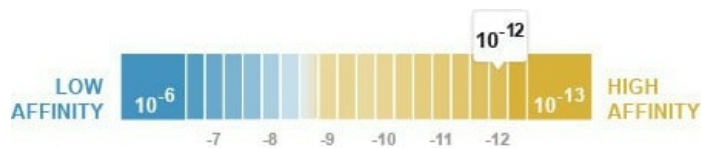
[4 References](#) [12 Images](#)

### Overview

<b>Product name</b>	Anti-SCAI antibody [EPR4128]
<b>Description</b>	Rabbit monoclonal [EPR4128] to SCAI
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, Flow Cyt (Intra), ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	Human thymus, thyroid, and 293T cell lysates; SH-SY5Y cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 5.80 x 10 <sup>-12</sup> M



[Learn more about K<sub>D</sub>](#)

<b>Storage buffer</b>	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS</p>
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<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR4128
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab124688 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
<b>IHC-P</b>		1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. <b>For unpurified, use 1/5.</b> See <b><u>IHC antigen retrieval protocol</u></b> .
<b>Flow Cyt (Intra)</b>		1/160. For unpurified, use 1/20. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
<b>ICC/IF</b>		1/400. <b>For unpurified, use 1/50.</b>
<b>WB</b>		1/1000 - 1/2000. Detects a band of approximately 66 kDa (predicted molecular weight: 70 kDa). <b>For unpurified, use 1/200.</b>

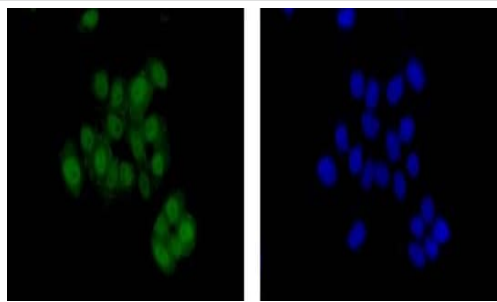
## Target

**Function** Tumor suppressor which functions to suppress MKL1-induced SRF transcriptional activity. May function in the RHOA-DIAPH1 signal transduction pathway and regulate cell migration through transcriptional regulation of ITGB1.

**Sequence similarities** Belongs to the SCAI family.

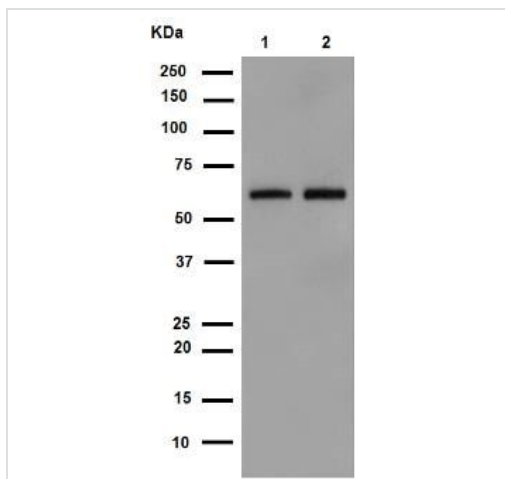
**Cellular localization** Membrane. Nucleus. Cytoplasm. Nuclear localization is required for inhibition of MKL1.

## Images



Immunocytochemistry/ Immunofluorescence - Anti-SCAI antibody [EPR4128] (ab124688)

Immunofluorescent staining of MCF7 cells (fixed with 4% PFA) with purified ab124688 at a dilution of 1/400. An Alexa Fluor<sup>®</sup> 488 goat anti-rabbit antibody was used as the secondary at a dilution of 1/200. The panel on the right shows the DAPI counter-staining.



Western blot - Anti-SCAI antibody [EPR4128] (ab124688)

**All lanes :** Anti-SCAI antibody [EPR4128] (ab124688) at 1/1600 dilution (purified)

**Lane 1 :** Mouse brain tissue lysate

**Lane 2 :** Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

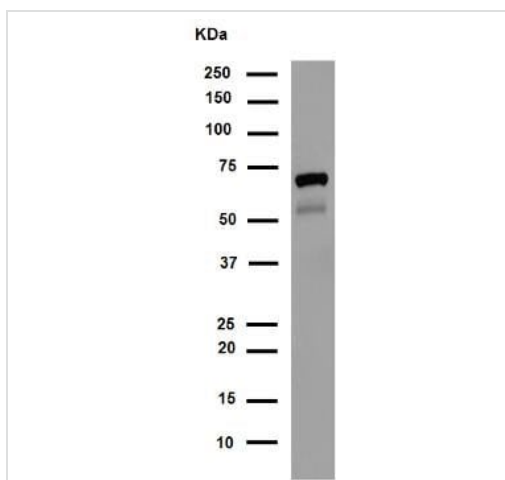
**All lanes :** HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 70 kDa

**Observed band size:** 66 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-SCAI antibody [EPR4128] (ab124688)

Anti-SCAI antibody [EPR4128] (ab124688) at 1/1600 dilution (purified) + Human thyroid tissue lysate at 20 µg

**Secondary**

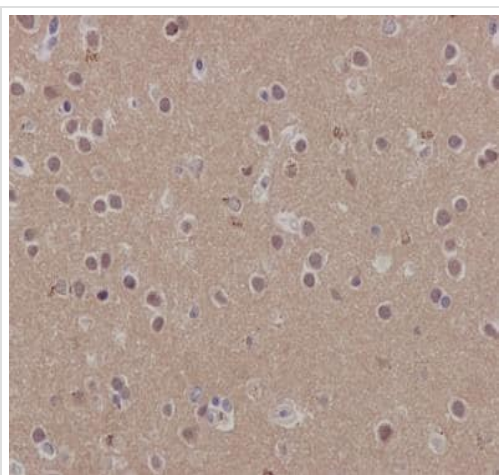
HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 70 kDa

**Observed band size:** 66 kDa

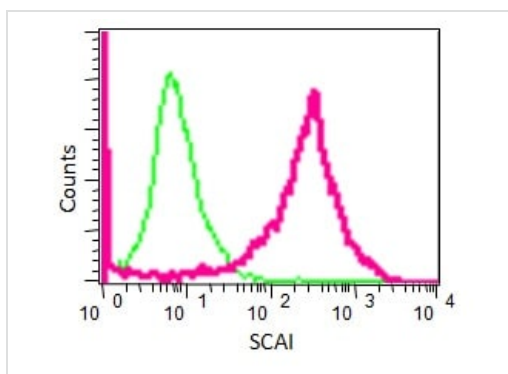
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



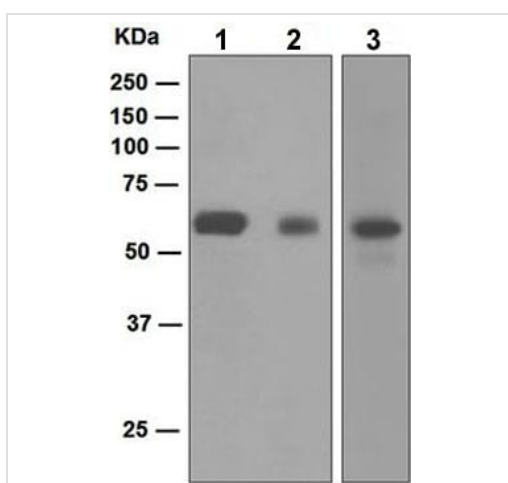
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCAI antibody [EPR4128] (ab124688)

Immunohistochemical staining of paraffin embedded human brain with purified ab124688 at a working dilution of 1 in 50. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0.



Flow Cytometry (Intracellular) - Anti-SCAI antibody [EPR4128] (ab124688)

Overlay histogram showing SH-SY5Y cells fixed in 2% PFA and stained with purified ab124688 at a dilution of 1 in 160 (pink line). The secondary antibody used was FITC goat anti-rabbit at a dilution of 1 in 150. Rabbit monoclonal IgG was used as an isotype control.



Western blot - Anti-SCAI antibody [EPR4128] (ab124688)

**All lanes** : Anti-SCAI antibody [EPR4128] (ab124688) at 1/1000 dilution (unpurified)

**Lane 1** : Human Thymus lysate

**Lane 2** : Human Thyroid lysate

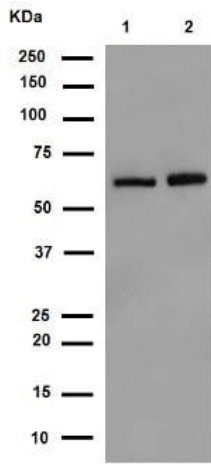
**Lane 3** : 293T cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Goat-anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 70 kDa



Western blot - Anti-SCAI antibody [EPR4128] (ab124688)

**All lanes** : Anti-SCAI antibody [EPR4128] (ab124688) at 1/200 dilution (purified)

**Lane 1** : Mouse brain tissue lysate

**Lane 2** : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

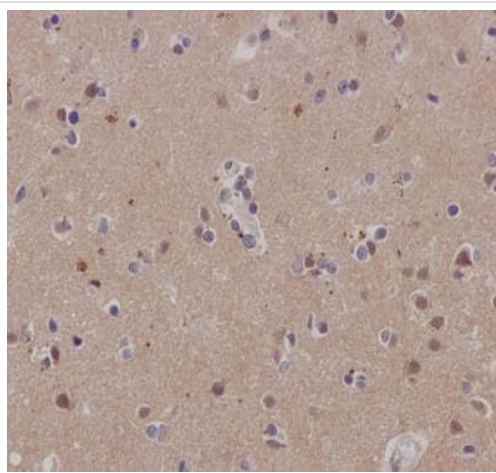
**All lanes** : HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 70 kDa

**Observed band size:** 66 kDa

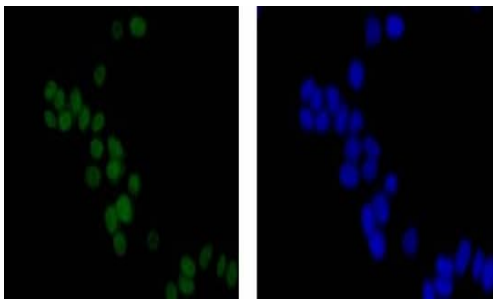
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



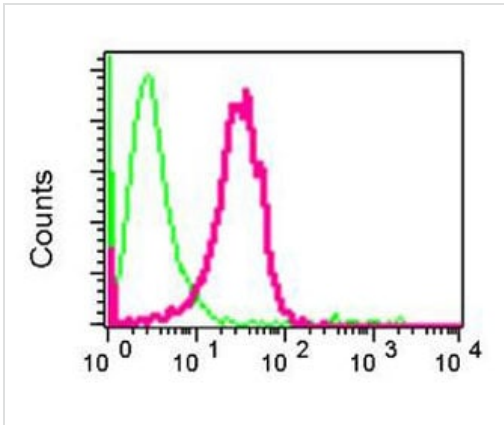
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCAI antibody [EPR4128] (ab124688)

Immunohistochemical staining of paraffin embedded human brain with unpurified ab124688 at a working dilution of 1 in 5. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0.



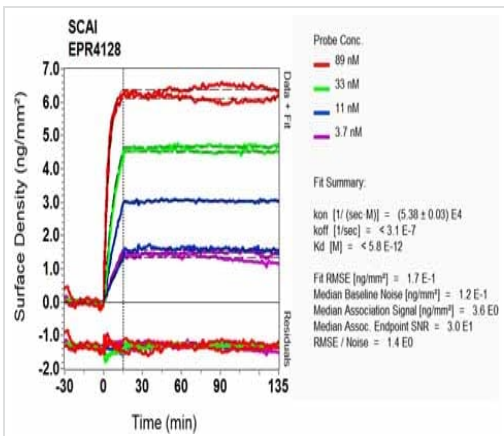
Immunocytochemistry/ Immunofluorescence - Anti-SCAI antibody [EPR4128] (ab124688)

Immunofluorescent staining of MCF7 cells (fixed with 4% PFA) with unpurified ab124688 at a dilution of 1/50. An Alexa Fluor® 488 goat anti-rabbit antibody was used as the secondary at a dilution of 1/200. The panel on the right shows the DAPI counter-staining.



Flow Cytometry (Intracellular) - Anti-SCAI antibody [EPR4128] (ab124688)

Unpurified ab124688 at 1/100 dilution staining SCAI in SH-SY5Y cells by intracellular flow cytometry (red) compared to a nonspecific negative control antibody (green).







OI-RD Scanning - Anti-SCAI antibody [EPR4128] (ab124688)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

Why choose a recombinant antibody?

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

Anti-SCAI antibody [EPR4128] (ab124688)

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

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