

## Product datasheet

### Anti-SAE2 / UBA2 antibody [EPR14880] $\alpha$ b185955

Recombinant RabMAb

★★★★☆ **4 Abreviews** **12 References** [7 Images](#)

#### Overview

<b>Product name</b>	Anti-SAE2 / UBA2 antibody [EPR14880]
<b>Description</b>	Rabbit monoclonal [EPR14880] to SAE2 / UBA2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, IP, 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>	HeLa, A549, K562, Raw264.7 and PC-12 cell lysates; Human colon tissue; Mouse brain tissue; HeLa 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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR14880
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab185955 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
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30 - 1/50.
ICC/IF	★★★★★ (1)	1/100.
WB	★★★★★ (3)	1/1000 - 1/2000. Detects a band of approximately 90 kDa (predicted molecular weight: 71 kDa).

## Target

### Function

The heterodimer acts as a E1 ligase for SUMO1, SUMO2, SUMO3, and probably SUMO4. It mediates ATP-dependent activation of SUMO proteins followed by formation of a thioester bond between a SUMO protein and a conserved active site cysteine residue on UBA2/SAE2.

### Pathway

Protein modification; protein sumoylation.

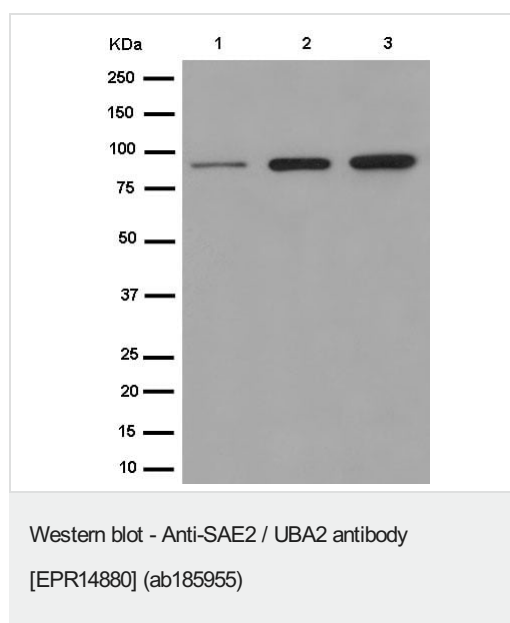
### Sequence similarities

Belongs to the ubiquitin-activating E1 family.

### Cellular localization

Nucleus.

## Images



**All lanes** : Anti-SAE2 / UBA2 antibody [EPR14880] (ab185955) at 1/1000 dilution

**Lane 1** : HeLa cell lysate

**Lane 2** : A549 cell lysate

**Lane 3** : K562 cell lysate

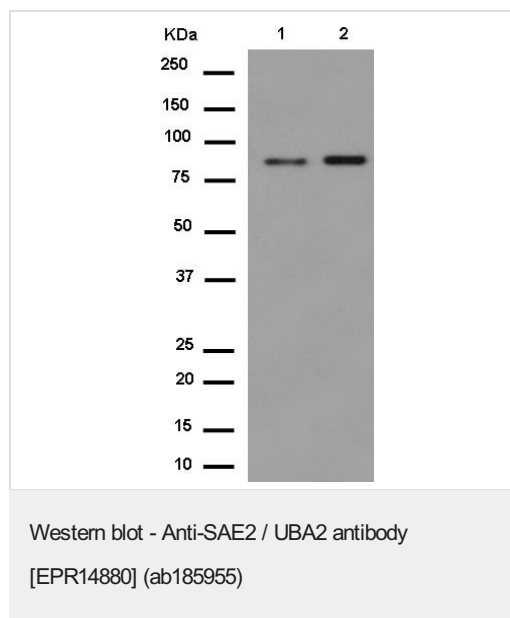
Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 71 kDa

**Observed band size:** 90 kDa



**All lanes :** Anti-SAE2 / UBA2 antibody [EPR14880] (ab185955) at 1/1000 dilution

**Lane 1 :** RAW 264.7 cell lysate

**Lane 2 :** PC-12 cell lysate

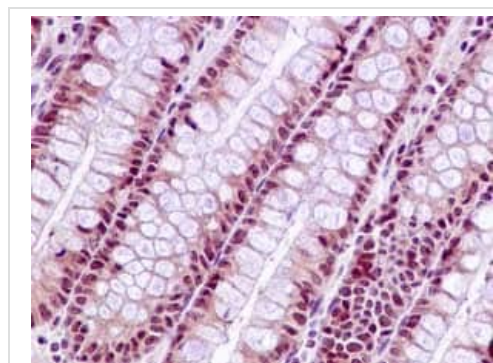
Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 71 kDa

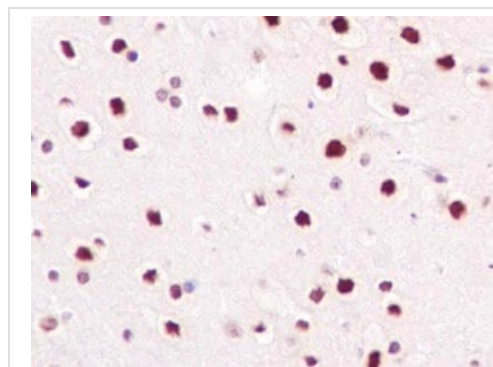
**Observed band size:** 90 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAE2 / UBA2 antibody [EPR14880] (ab185955)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling SAE2 / UBA2 with ab185955 at 1/50 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

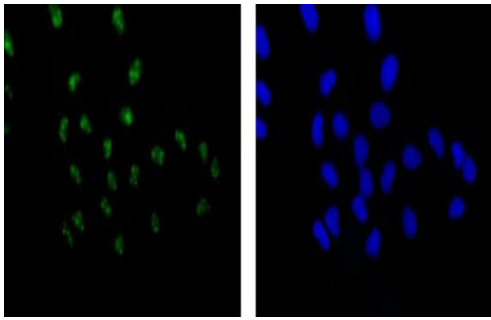
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAE2 / UBA2 antibody [EPR14880] (ab185955)

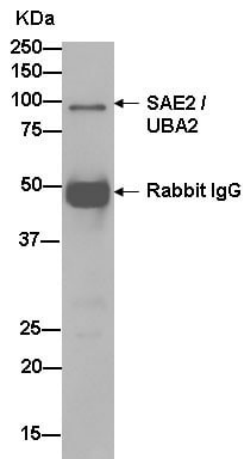
Immunohistochemical analysis of paraffin-embedded Mouse brain tissue labeling SAE2 / UBA2 with ab185955 at 1/50 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-SAE2 / UBA2 antibody [EPR14880] (ab185955)

Immunofluorescent analysis of acetone-fixed HeLa cells labeling SAE2 / UBA2 with ab185955 at 1/100 dilution followed by Goat anti rabbit IgG (Alexa Fluor®488) secondary antibody at 1/200 dilution.



Immunoprecipitation - Anti-SAE2 / UBA2 antibody [EPR14880] (ab185955)

Western blot analysis of SAE2 / UBA2 in K562 cell lysate immunoprecipitated with ab185955 at 1/50 dilution.

Secondary antibody: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution.

### Why choose a recombinant antibody?



Anti-SAE2 / UBA2 antibody [EPR14880] (ab185955)

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

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