

## Product datasheet

### Anti-Syntaxin 4 antibody [EPR15473] ab184545


KO **VALIDATED**

Recombinant

RabMAb<sup>®</sup>

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

#### Overview

<b>Product name</b>	Anti-Syntaxin 4 antibody [EPR15473]
<b>Description</b>	Rabbit monoclonal [EPR15473] to Syntaxin 4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HEK-293, K562, HeLa and A431 cell lysates. Wild-type HAP1 cell lysate.
<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>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR15473
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab184545 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		1/1000 - 1/10000. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).

## Target

### Function

Plasma membrane t-SNARE that mediates docking of transport vesicles. Necessary for the translocation of SLC2A4 from intracellular vesicles to the plasma membrane. Together with STXB3 and VAMP2, may also play a role in docking/fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes (By similarity). May also play a role in docking of synaptic vesicles at presynaptic active zones.

### Tissue specificity

Expressed in neutrophils and neutrophil-differentiated HL-60 cells. Expression in neutrophils increases with differentiation.

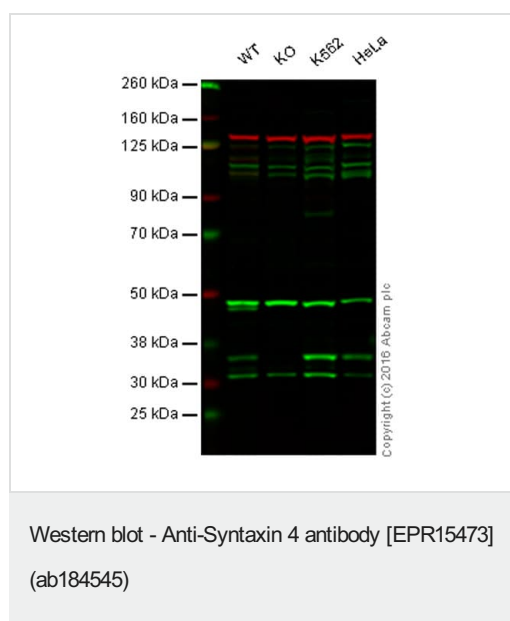
### Sequence similarities

Belongs to the syntaxin family.  
Contains 1 t-SNARE coiled-coil homology domain.

### Cellular localization

Cell membrane.

## Images



**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

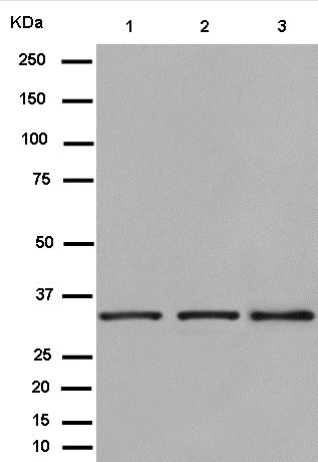
**Lane 2:** Syntaxin 4 knockout HAP1 cell lysate (20 µg)

**Lane 3:** K562 cell lysate (20 µg)

**Lane 4:** HeLa cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab184545 observed at 1X kDa. Red - loading control, **ab18058**, observed at 124 kDa.

ab184545 was shown to recognize Syntaxin 4 when Syntaxin 4 knockout samples were used, along with additional cross-reactive bands. Wild-type and Syntaxin 4 knockout samples were subjected to SDS-PAGE. ab184545 and **ab18058** (loading control to Vinculin) were diluted 1/1000 and 1/10,000 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.



Western blot - Anti-Syntaxin 4 antibody [EPR15473]  
(ab184545)

**All lanes :** Anti-Syntaxin 4 antibody [EPR15473] (ab184545) at 1/2000 dilution

**Lane 1 :** 293 cell lysate

**Lane 2 :** K562 cell lysate

**Lane 3 :** HeLa cell lysate

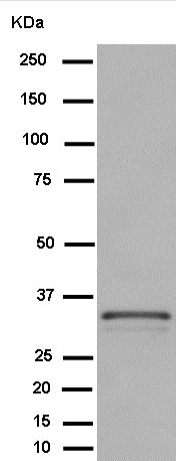
Lysates/proteins at 20 µg per lane.

#### Secondary

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

**Predicted band size:** 34 kDa

**Observed band size:** 34 kDa



Western blot - Anti-Syntaxin 4 antibody [EPR15473]  
(ab184545)

Anti-Syntaxin 4 antibody [EPR15473] (ab184545) at 1/10000 dilution + A431 cell lysate at 20 µg

#### Secondary

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

**Predicted band size:** 34 kDa

**Observed band size:** 34 kDa

### 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-Syntaxin 4 antibody [EPR15473] (ab184545)

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

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- Extensive multi-media technical resources to help you
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