

## Product datasheet

# Anti-Syntaxin 3 antibody [EPR8543] ab133750

Recombinant RabMAb

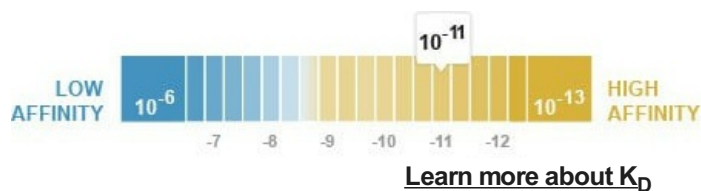
★★★★★ [2 Abreviews](#) [14 References](#) [10 Images](#)

### Overview

<b>Product name</b>	Anti-Syntaxin 3 antibody [EPR8543]
<b>Description</b>	Rabbit monoclonal [EPR8543] to Syntaxin 3
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF <b>Unsuitable for:</b> Flow Cyt or IP
<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>	WB: HepG2, Caco-2, , 293T, BxPC-3, Raw 264.7, PC-12, Rat lung, and NIH/3T3 lysates. IHC-P: human kidney, mouse kidney, and rat kidney tissues. ICC/IF: PC-12 and HepG2 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> = 2.34 x 10 <sup>-11</sup> M



<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide
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	Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8543
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab133750 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

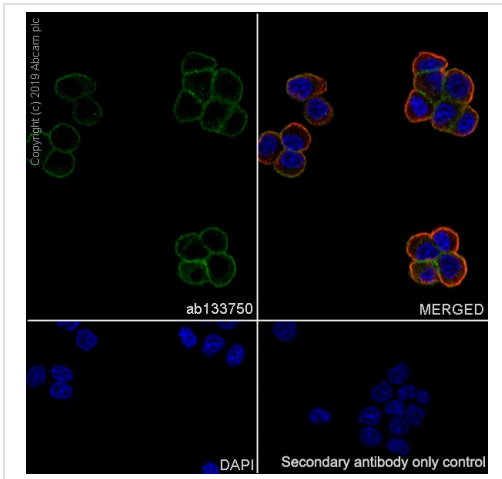
Application	Abreviews	Notes
<b>WB</b>	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 33 kDa (predicted molecular weight: 33 kDa).
<b>IHC-P</b>		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols</u></b>
<b>ICC/IF</b>	★★★★★ (1)	1/50 - 1/100.

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

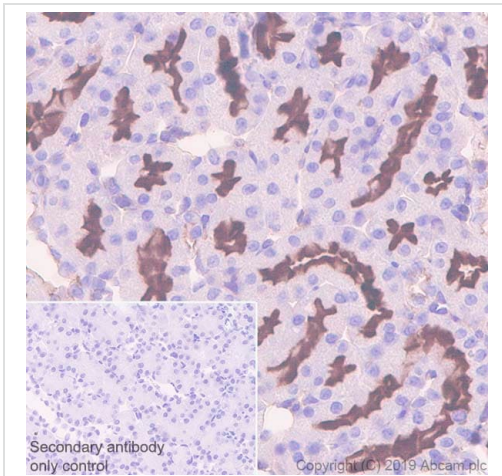
<b>Function</b>	Potentially involved in docking of synaptic vesicles at presynaptic active zones.
<b>Sequence similarities</b>	Belongs to the syntaxin family. Contains 1 t-SNARE coiled-coil homology domain.
<b>Cellular localization</b>	Membrane.

## Images



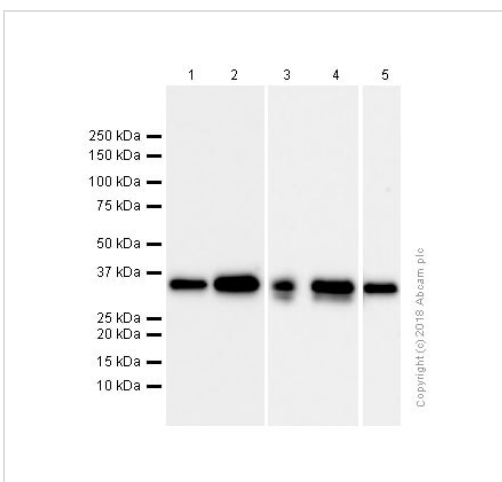
Immunocytochemistry/ Immunofluorescence - Anti-Syntaxin 3 antibody [EPR8543] (ab133750)

Immunocytochemistry/ Immunofluorescence analysis of PC-12 (Rat adrenal gland pheochromocytoma) cells labeling Syntaxin 3 with Purified ab133750 at 1:50 dilution (0.5 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syntaxin 3 antibody [EPR8543] (ab133750)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue sections labeling Syntaxin 3 with Purified ab133750 at 1:250 dilution (0.104 µg/ml). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). Purified ImmunoHistoProbe one step HRP Polymer (ready to use) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-Syntaxin 3 antibody [EPR8543] (ab133750)

**All lanes** : Anti-Syntaxin 3 antibody [EPR8543] (ab133750) at 1/1000 dilution (Purified)

**Lane 1** : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates

**Lane 2** : Caco-2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates

**Lane 3** : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates

**Lane 4** : Rat lung lysates

**Lane 5** : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates

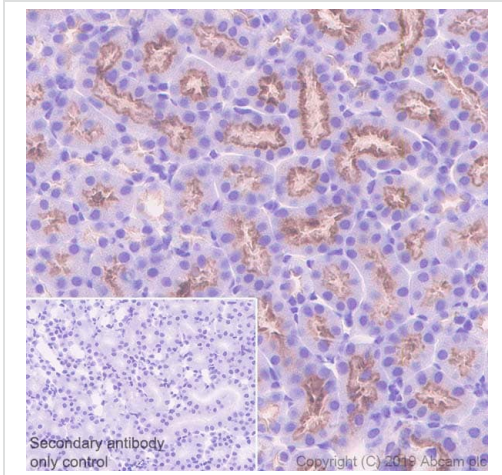
Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

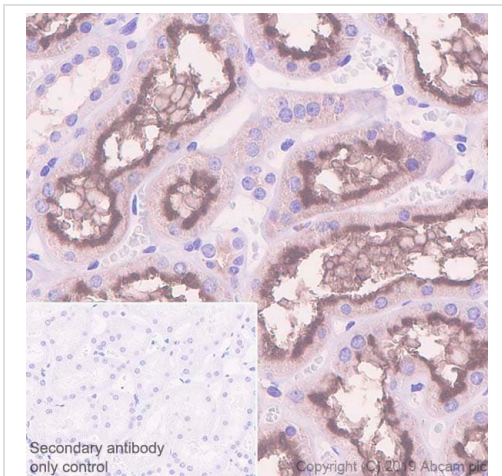
**Predicted band size:** 33 kDa

**Observed band size:** 33 kDa



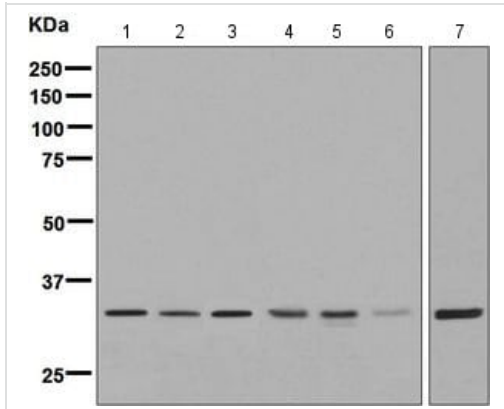
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syntaxin 3 antibody [EPR8543] (ab133750)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue sections labeling Syntaxin 3 with Purified ab133750 at 1:250 dilution (0.104 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Purified)ImmunoHistoProbe one step HRP Polymer (ready to use) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syntaxin 3 antibody [EPR8543] (ab133750)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue sections labeling Syntaxin 3 with Purified ab133750 at 1:250 dilution (0.104 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Purified)ImmunoHistoProbe one step HRP Polymer (ready to use) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-Syntaxin 3 antibody [EPR8543] (ab133750)

**All lanes** : Anti-Syntaxin 3 antibody [EPR8543] (ab133750) at 1/1000 dilution

**Lane 1** : HepG2 cell lysate

**Lane 2** : 293T cell lysate

**Lane 3** : BxPC-3 cell lysate

**Lane 4** : Raw 264.7 cell lysate

**Lane 5** : PC12 cell lysate

**Lane 6** : NIH3T3 cell lysate

**Lane 7** : Caco-2 cell lysate

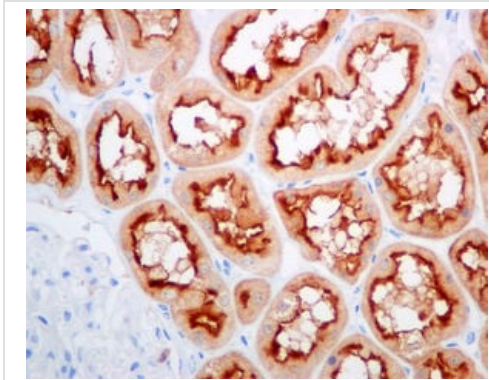
Lysates/proteins at 10 µg per lane.

### Secondary

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

**Predicted band size:** 33 kDa

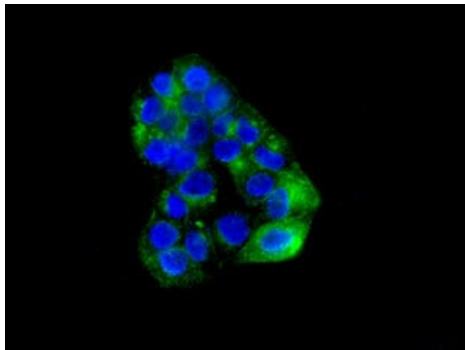
**Observed band size:** 33 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syntaxin 3 antibody [EPR8543] (ab133750)

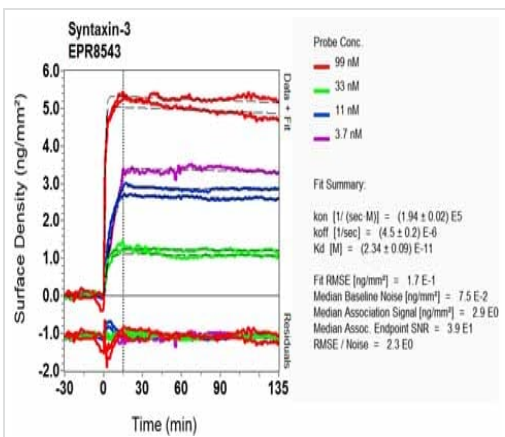
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labelling Syntaxin 3 with ab133750 at 1/50.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Syntaxin 3 antibody [EPR8543] (ab133750)

Immunocytochemical analysis of HepG2 cells labelling Syntaxin 3 with ab133750 at 1/50.



OL-RD Scanning - Anti-Syntaxin 3 antibody [EPR8543] (ab133750)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

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

### 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 3 antibody [EPR8543] (ab133750)

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

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