

## Product datasheet

### Anti-Chromogranin A antibody [EP1030Y] ab68271

Recombinant RabMAb

★★★★☆ **2 Abreviews** **11 References** **5 Images**

#### Overview

<b>Product name</b>	Anti-Chromogranin A antibody [EP1030Y]
<b>Description</b>	Rabbit monoclonal [EP1030Y] to Chromogranin A
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-P, Flow Cyt (Intra) <b>Unsuitable for:</b> IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: SH-SY5Y cell lysate. IHC-P: Human pancreas tissue. ICC/IF: SH-SY5Y. Flow Cyt (intra): 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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</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. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1030Y
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab68271 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

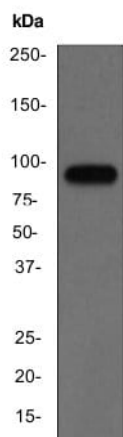
Application	Abreviews	Notes
ICC/IF		1/100 - 1/250.
WB		1/10000 - 1/50000. Detects a band of approximately 90 kDa (predicted molecular weight: 51 kDa).
IHC-P	★★★★☆ (2)	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/200. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

**Application notes** Is unsuitable for IP.

## Target

<b>Function</b>	Pancreastatin strongly inhibits glucose induced insulin release from the pancreas.
<b>Sequence similarities</b>	Belongs to the chromogranin/secretogranin protein family.
<b>Post-translational modifications</b>	Sulfated on tyrosine residues and/or contains sulfated glycans. O-glycosylated with core 1 or possibly core 8 glycans.
<b>Cellular localization</b>	Secreted. Neuroendocrine and endocrine secretory granules.
<b>Form</b>	According to the Swiss-Prot database, this protein has many different forms which correspond to various molecular weights; thus the possible variation from the predicted molecular weight of 51kDa.

## Images



Western blot - Anti-Chromogranin A antibody  
[EP1030Y] (ab68271)

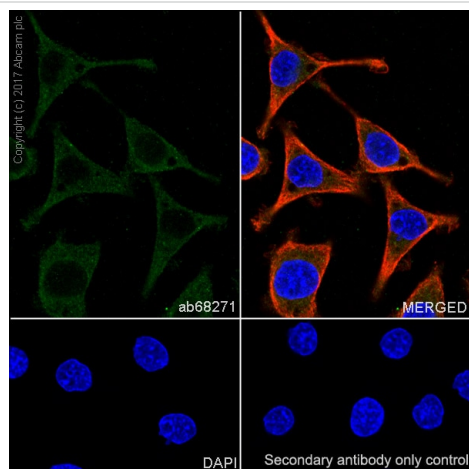
Anti-Chromogranin A antibody [EP1030Y] (ab68271) + SH-SY5Y  
(Human neuroblastoma cell line from bone marrow) cell lysate at 10  
µg

### Secondary

HRP conjugated Goat anti-rabbit at 1/2000 dilution

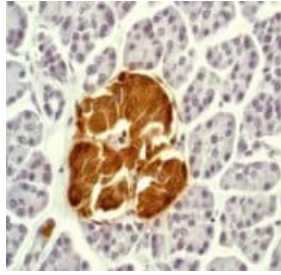
**Predicted band size:** 51 kDa

**Observed band size:** 90 kDa



Immunocytochemistry/ Immunofluorescence - Anti-  
Chromogranin A antibody [EP1030Y] (ab68271)

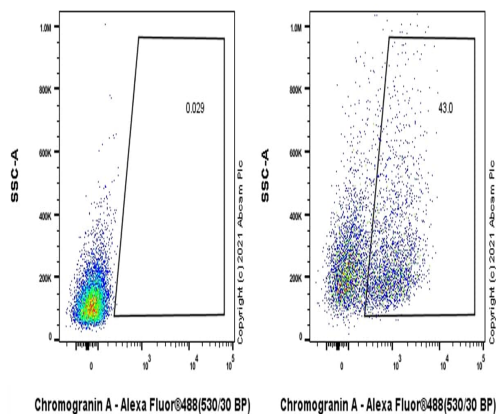
Immunocytochemistry analysis of SH-SY5Y (human neuroblastoma epithelial cell) labeling Chromogranin A with purified ab68271 at 1/50 dilution (3 µg/ml). Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/1000 (2 µg/ml) was used as the secondary antibody. [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.17 µg/ml) was used as counterstain. Nuclei were stained blue with DAPI. Negative control: PBS instead of the primary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Chromogranin A antibody [EP1030Y] (ab68271)

Formalin/PFA-fixed paraffin-embedded human pancreas tissue stained for Chromogranin A with ab68271 at a 1/100 dilution in immunohistochemical analysis.

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



Flow Cytometry (Intracellular) - Anti-Chromogranin A antibody [EP1030Y] (ab68271)

Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte, Left) / SH-SY5Y (Human neuroblastoma epithelial cell, Right) cells labeling Chromogranin A with purified ab68271 at 1/200 dilution (1 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Left). Negative control: Jurkat.

### 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-Chromogranin A antibody [EP1030Y] (ab68271)

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

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