

Product datasheet

Anti-Chromogranin A antibody ab45179

★★★★★ 9 Abreviews 15 References 8 Images

Overview

Product name	Anti-Chromogranin A antibody
Description	Rabbit polyclonal to Chromogranin A
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Dog, Pig, Monkey 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: PC-12 and SH-SY5Y cell lysates. IHC-P: Human pancreatic tissue and adenocarcinoma of pancreas tissue. ICC/IF: Panc-1 and SHSY5Y cells.
General notes	<p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

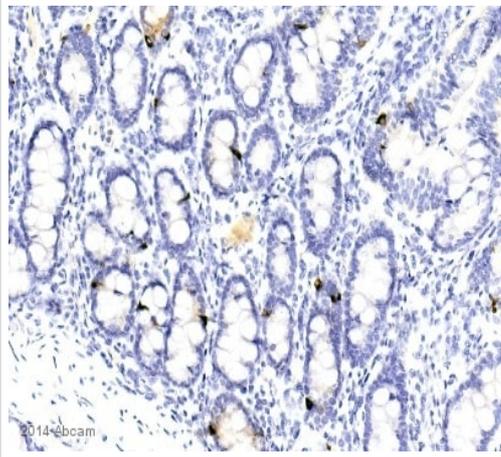
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab45179 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (8)	1/200. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/100 - 1/250. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration. For unpurified use at 1/50 - 1/100.
WB		1/2000. Detects a band of approximately 86 kDa. For unpurified use at 1/10000.

Target

Function	Pancreastatin strongly inhibits glucose induced insulin release from the pancreas.
Sequence similarities	Belongs to the chromogranin/secretogranin protein family.
Post-translational modifications	Sulfated on tyrosine residues and/or contains sulfated glycans. O-glycosylated with core 1 or possibly core 8 glycans.
Cellular localization	Secreted. Neuroendocrine and endocrine secretory granules.
Form	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.

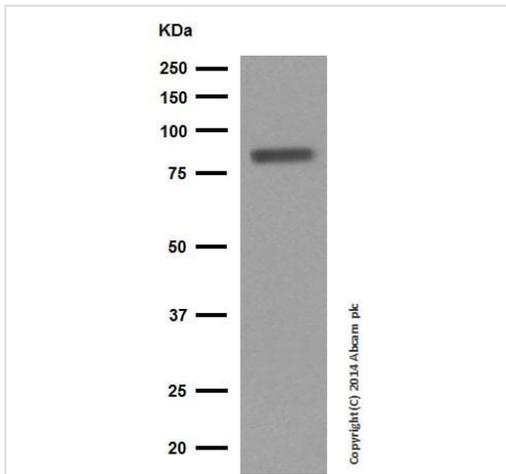
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Chromogranin A antibody (ab45179)

This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom

Unpurified ab45179 staining Chromogranin A in pig small intestine tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and blocked with 1% BSA for 10 minutes at 21°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/750 in blocking buffer) for 2 hours at 21°C. A Biotin-conjugated Goat anti-rabbit IgG polyclonal (1/250) was used as the secondary antibody.



Western blot - Anti-Chromogranin A antibody (ab45179)

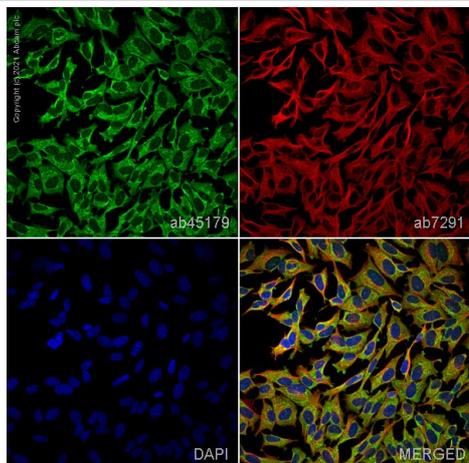
Anti-Chromogranin A antibody (ab45179) at 1/5000 dilution (purified) + SH-SY5Y cell lysate at 10 µg

Secondary

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

Observed band size: 86 kDa

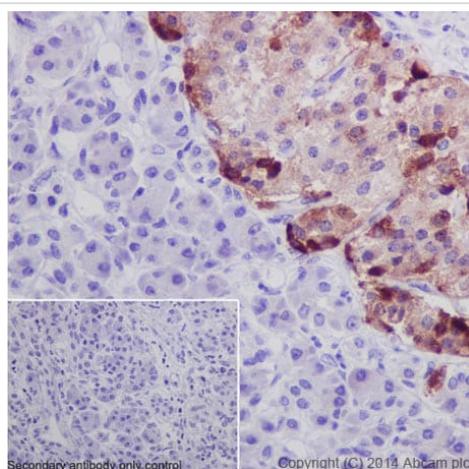
Blocking and diluting buffer: 5% NFD/MBST.



Immunocytochemistry - Anti-Chromogranin A antibody (ab45179)

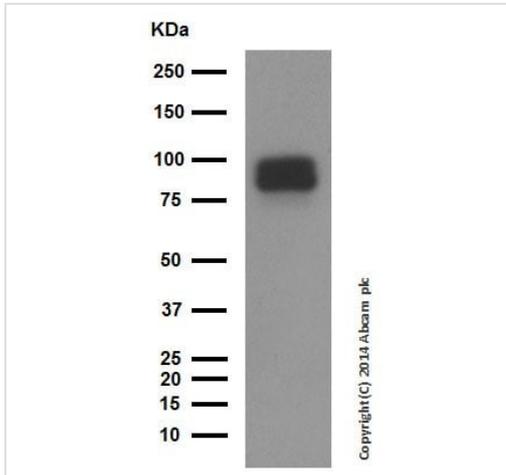
ab45179 staining Chromogranin A in SHSY5Y cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab45179 at 5µg/ml and ab7291, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with ab150081, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and ab150080, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Chromogranin A antibody (ab45179)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human adenocarcinoma of pancreas tissue labelling Chromogranin A with purified ab45179 at 1/200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. ab97051, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-Chromogranin A antibody (ab45179)

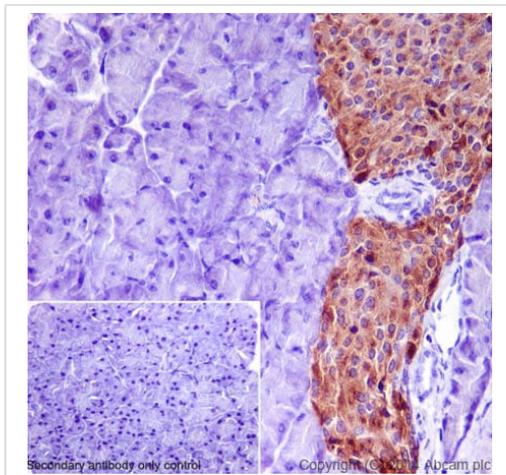
Anti-Chromogranin A antibody (ab45179) at 1/1000 dilution (purified) + PC-12 cell lysate at 20 µg

Secondary

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

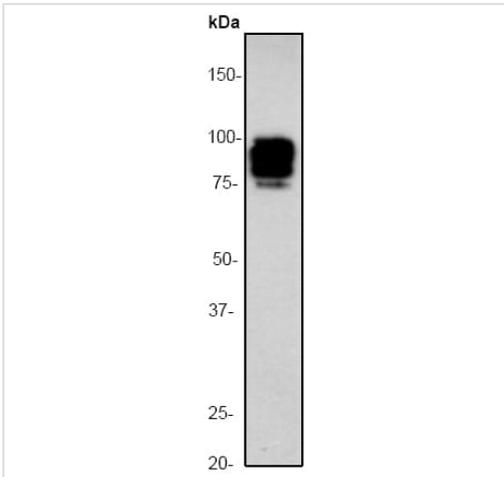
Observed band size: 86 kDa

Blocking and diluting buffer: 5% NFD/MTBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Chromogranin A antibody (ab45179)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse pancreas tissue labelling Chromogranin A with purified ab45179 at 1/200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



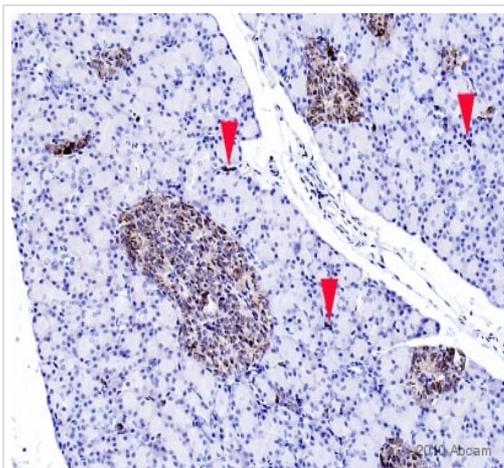
Western blot - Anti-Chromogranin A antibody (ab45179)

Anti-Chromogranin A antibody (ab45179) at 1/10000 dilution (unpurified) + PC-12 cell lysate at 10 µg

Secondary

HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Observed band size: 86 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Chromogranin A antibody (ab45179)

This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom

Chromogranin A staining on monkey pancreas sections. The sections were subjected to heat mediated epitope retrieval using citric acid (pH 6) and blocked using 1% BSA for 10 mins at 21°C. Unpurified ab45179 was used at a dilution of 1/750 using TBS/BSA/Azide for 2 hours at 21°C. (Red arrowheads indicate extra islet positive cells).

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