abcam

Product datasheet

Anti-IGJ antibody [EPR23130-113] - BSA and Azide free ab269860

Recombinant RabMAb

7 Images

Overview

Product name	Anti-IGJ antibody [EPR23130-113] - BSA and Azide free
Description	Rabbit monoclonal [EPR23130-113] to IGJ - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF, IP
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human tonsil tissue lysate; Daudi, Raji and Ramos cell lysate. IHC-P: Human bladder cancer, spleen and colon tissue. ICC/IF: Daudi cells. IP: Human tonsil tissue lysate.
General notes	ab269860 is the carrier-free version of **ab269855**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23130-113
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab269860 in the following tested applications.

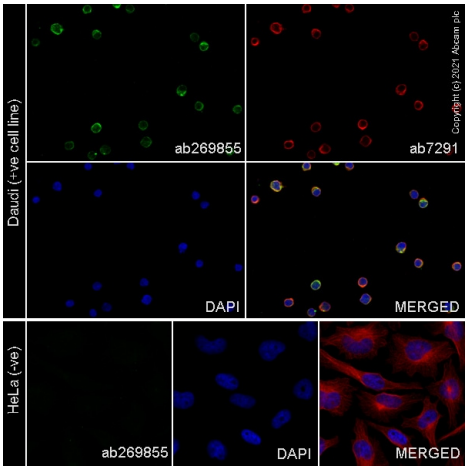
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 18 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Function	Serves to link two monomer units of either IgM or IgA. In the case of IgM, the J chain-joined dimer is a nucleating unit for the IgM pentamer, and in the case of IgA it induces larger polymers. It also help to bind these immunoglobulins to secretory component.
Cellular localization	Secreted.

Images



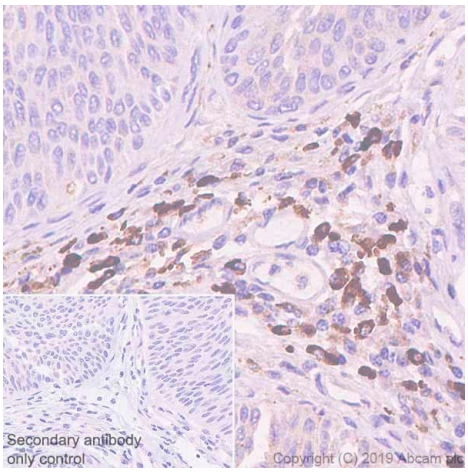
Immunocytochemistry/ Immunofluorescence - Anti-IGJ antibody [EPR23130-113] - BSA and Azide free (ab269860)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab269855**).

ab269855 staining IGJ in Daudi cells, with negative expression in HeLa cells. The cells were fixed with 4% formaldehyde (10 min), permeabilised with 0.1% Triton x-100 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 **ab269855** at 5 µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin at 0.5 µg/ml. 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 **ab150119**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 647), pre-adsorbed at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.

This product also work with 100% methanol (5 min) fixation under the same testing conditions.

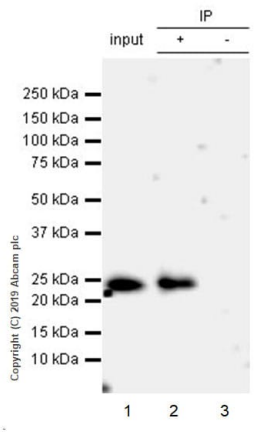


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IGJ antibody [EPR23130-113] - BSA and Azide free (ab269860)

Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue labeling IGJ with **ab269855** at 1/8000 dilution (0.06 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in plasma cells of human bladder cancer is observed. The section was incubated with **ab269855** for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab269855**).



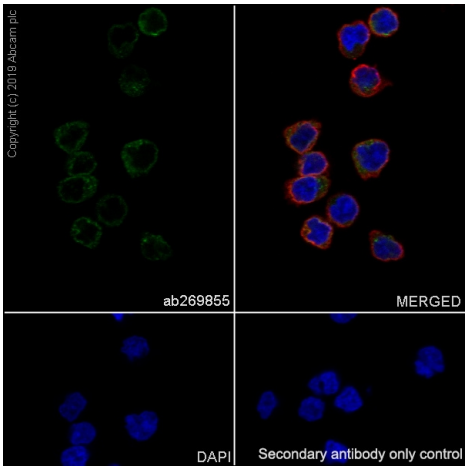
Immunoprecipitation - Anti-IGJ antibody [EPR23130-113] - BSA and Azide free (ab269860)

IGJ was immunoprecipitated from 0.35 mg human tonsil lysate with **ab269855** at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using 269855 1/1000 dilution (0.48 µg/ml). VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: Human tonsil lysate 10 µg
Lane 2: **ab269855** IP in human tonsil lysate
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab269855** in human tonsil lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 3 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab269855**).

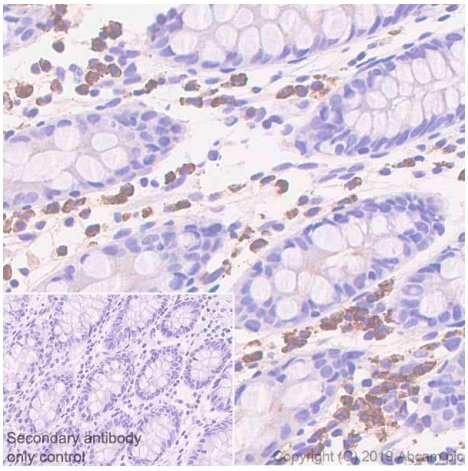


Immunocytochemistry/ Immunofluorescence - Anti-IGJ antibody [EPR23130-113] - BSA and Azide free (ab269860)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Daudi cells labeling IGJ with **ab224687** at 1/50 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in Daudi cells is observed. **ab195889** Anti-alpha Tubulin antibody (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab269855**).

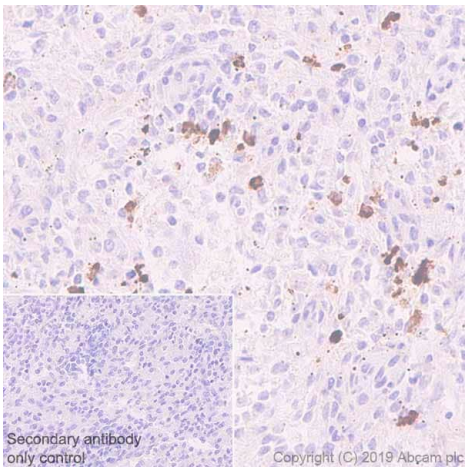


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IGJ antibody [EPR23130-113] - BSA and Azide free (ab269860)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling IGJ with **ab269855** at 1/8000 dilution (0.06 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in plasma cells of human colon (PMID:12389099) is observed. The section was incubated with **ab269855** for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab269855**).

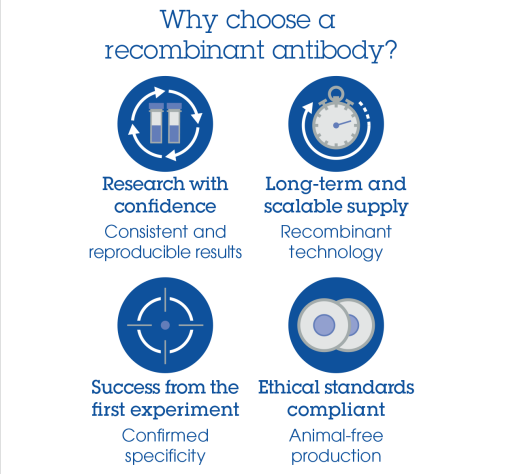


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IGJ antibody [EPR23130-113] - BSA and Azide free (ab269860)

Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling IGJ with **ab269855** at 1/8000 dilution (0.06 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in plasma cells of human spleen (PMID:12389099) is observed. The section was incubated with **ab269855** for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab269855**).



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