abcam

Product datasheet

Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free ab210849

Recombinant RabMAb

14 Images

Overview

Product name	Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free
Tested applications	**Suitable for:** IHC-P, ICC/IF, Flow Cyt, ChIP-sequencing, WB, ChIC/CUT&RUN-seq
Immunogen	Chemical/ Small Molecule conjugated to keyhole limpet haemocyanin. KLH is a copper containing oxygen carrier occurring freely dissolved in the hemolymph of many molluscs and arthropods. KLH forms a large complex composed of ~50 kDa subunits.
General notes	ab210849 is the carrier-free version of **ab172730**. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our **carrier-free formats** are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. 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. ab210849 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *Maxpar® is a trademark of Fluidigm Canada Inc* KLH is often used in molecular immunology as a carrier protein conjugated to low molecular weight molecules such as peptides, amino acids, nucleic acids, drugs or toxins to render them more immunogenic due to the size of the conjugate complex and the immunogenicity of KLH. 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	EPR25A
Isotype	IgG

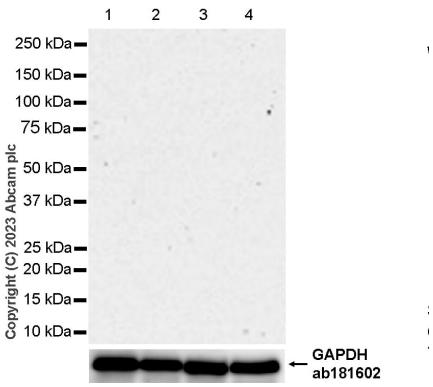
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab210849 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		Use at an assay dependent concentration. **Please note**: This product should be diluted to the same concentration (not dilution) of the primary antibody to be used.
ICC/IF		Use at an assay dependent concentration. **Please note**: This product should be diluted to the same concentration (not dilution) of the primary antibody to be used.
Flow Cyt		Use at an assay dependent concentration. **Please note**: This product should be diluted to the same concentration (not dilution) of the primary antibody to be used.
ChIP-sequencing		Use at an assay dependent concentration. PubMed: 26455392
WB		Use at an assay dependent concentration.
ChIC/CUT&RUN-seq		Use at an assay dependent concentration.

Images



Western blot - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

All lanes : Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) at 1/1000 dilution

Lane 1 : HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : 293T (human embryonic kidney epithelial cell) whole cell lysate
Lane 3 : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate
Lane 4 : PC-12 (rat adrenal gland pheochromocytoma cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

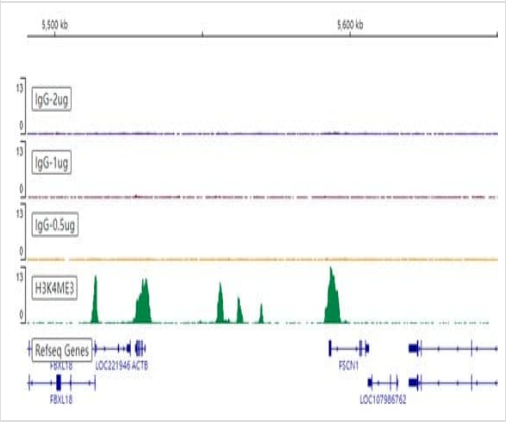
Exposure time: 180 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).

Negative Control.

Blocking and dilution buffer and concentration: 5% NFDM/TBST

In Western blot, anti-GAPDH antibody (**ab181602**) loading control staining at 1/200000 dilution.



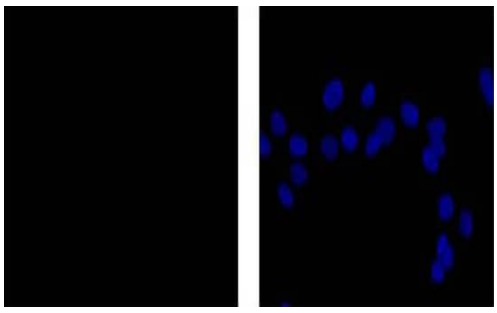
ChIC/CUT&RUN sequencing - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

ChIC/CUT&RUN was performed using a pAG-MNAse at a final concentration of 700 ng/mL, 2.5 x 10^5 HeLa (Human cervix adenocarcinoma epithelial cell line) cells and 0.5 µg, 1 µg or 2µg of **ab172730** [EPR25A]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. H3K4me3 (**ab213224**) used for comparison.

Additional screenshots of mapped reads can be downloaded **here**.

The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.

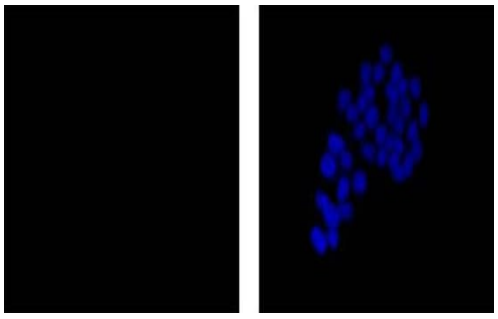
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).



Immunocytochemistry/ Immunofluorescence - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Immunocytochemistry/immunofluorescence analysis of HeLa cells with unpurified Rabbit IgG **ab172730** at 1/10. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/200) was used as the secondary antibody. Counterstained with DAPI (blue).

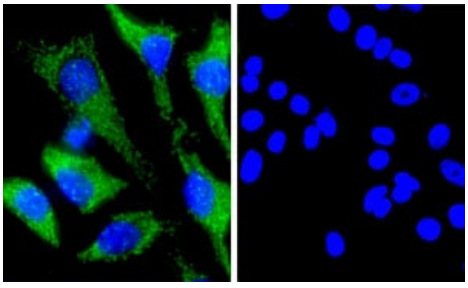
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).



Immunocytochemistry/ Immunofluorescence - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Immunocytochemistry/immunofluorescence analysis of HeLa cells with purified Rabbit IgG **ab172730** at 1/100. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/200) was used as the secondary antibody. Counterstained with DAPI (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).

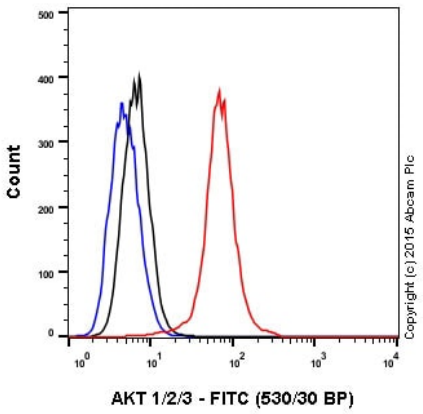


Immunocytochemistry/ Immunofluorescence - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Immunofluorescent staining of HeLa cells using anti-AIF RabMAb (**ab32516**, left panel) (green) and Rabbit mAb IgG control (**ab172730**, right panel). DAPI nuclear staining (blue).

Conjugated versions are available for this clone: Alexa Fluor® 488 (**ab199091**), Alexa Fluor® 647 (**ab199093**), R-PE (**ab209478**), APC (**ab232814**).

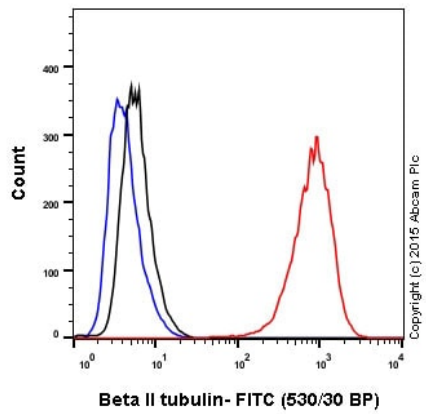
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).



Flow Cytometry - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Overlay histogram showing A549 (human lung carcinoma) cells stained with **ab185633** (red line). The cells were fixed with 2% paraformaldehyde. The cells were then incubated with **ab185633** at 1/150 dilution. The secondary antibody used was goat anti-rabbit IgG (FITC) at 1/150 dilution. Isotype control antibody (black line) was rabbit IgG (monoclonal) (**ab172730**). Unlabelled control (blue line) was cells without incubation with primary antibody and secondary antibody. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 530/30 bandpass filter.

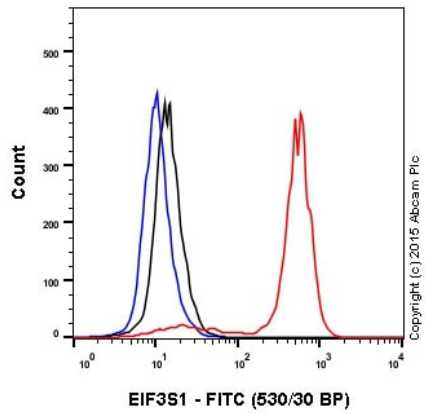
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).



Flow Cytometry - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Overlay histogram showing SH-SY5Y (human neuroblastoma) cells stained with **ab179513** (red line). The cells were fixed with 2% paraformaldehyde. The cells were then incubated with **ab179513** at 1/150 dilution. The secondary antibody used was goat anti-rabbit IgG (FITC) at 1/150 dilution. Isotype control antibody (black line) was rabbit IgG (monoclonal) (**ab172730**). Unlabelled control (blue line) was cells without incubation with primary antibody and secondary antibody. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 530/30 bandpass filter.

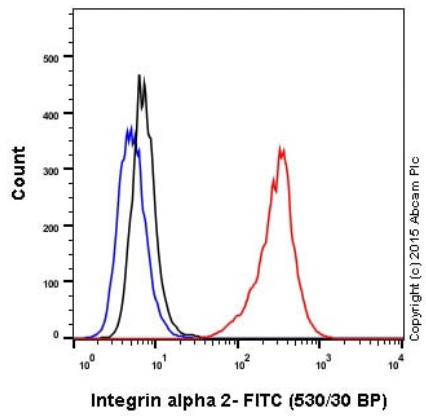
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).



Flow Cytometry - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Overlay histogram showing K562 (human chronic myelogenous leukemia) cells stained with **ab196018** (red line). The cells were fixed with 2% paraformaldehyde. The cells were then incubated with **ab196018** at 1/150 dilution. The secondary antibody used was goat anti-rabbit IgG (FITC) at 1/150 dilution. Isotype control antibody (black line) was rabbit IgG (monoclonal) (**ab172730**). Unlabelled control (blue line) was cells without incubation with primary antibody and secondary antibody. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 530/30 bandpass filter.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).

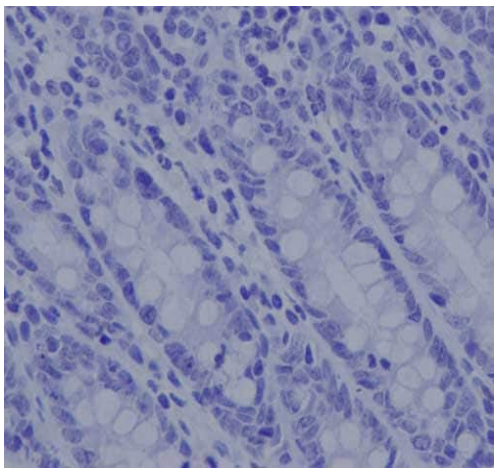


Flow Cytometry - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Overlay histogram showing A549 (human lung carcinoma) cells stained with **ab133557** (red line). The cells were fixed with 2% paraformaldehyde. The cells were then incubated with **ab133557** at 1/60 dilution. The secondary antibody used was goat anti-rabbit IgG (FITC) at 1/150 dilution. Isotype control antibody (black line) was rabbit IgG (monoclonal) (**ab172730**). Unlabelled control (blue line) was cells without incubation with primary antibody and secondary antibody. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 530/30 bandpass filter.

Conjugated versions are available for this clone: Alexa Fluor® 488 (**ab199091**), Alexa Fluor® 647 (**ab199093**), R-PE (**ab209478**), APC (**ab232814**).

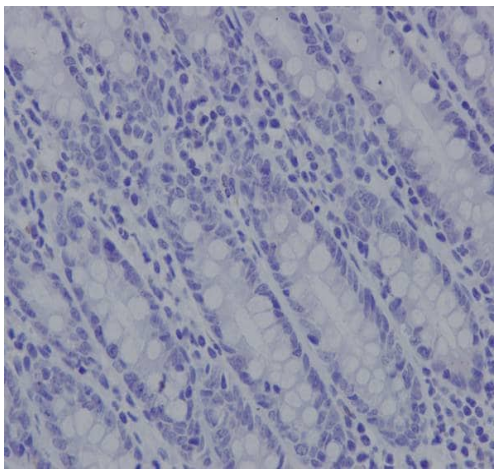
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue with purified Rabbit IgG **ab172730** at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Counterstained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue with unpurified Rabbit IgG **ab172730** at 1/10. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Counterstained with Hematoxylin.

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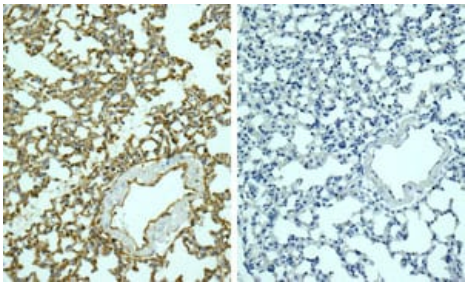
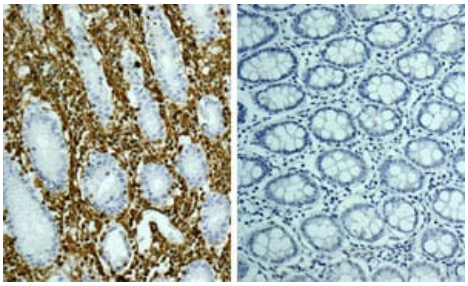


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Immunohistochemical analysis of paraffin-embedded mouse lung tissue using anti-Vimentin RabMAb (**ab92547**, left panel) (brown) and Rabbit mAb IgG control (**ab172730**, right panel).

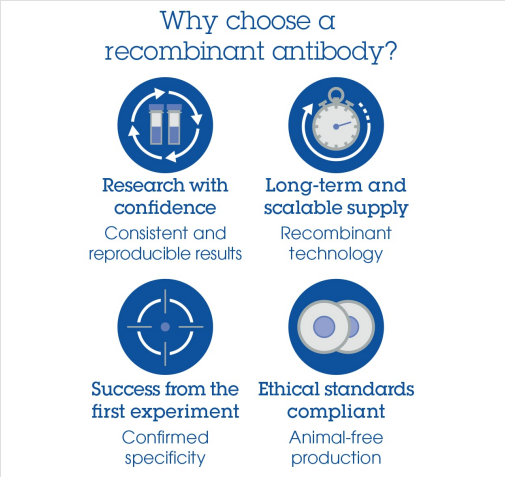
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-Vimentin RabMAb (**ab92547**, left panel) (brown) and Rabbit mAb IgG control (**ab172730**, right panel).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172730**).



Rabbit IgG, monoclonal [EPR25A] - Isotype Control - BSA and Azide Free (ab210849)

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