abcam

Product datasheet

Anti-Axl antibody [EPR21107] - BSA and Azide free ab234258

Recombinant RabMAb

5 Images

Overview

Product name	Anti-Axl antibody [EPR21107] - BSA and Azide free
Description	Rabbit monoclonal [EPR21107] to Axl - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment within Human Axl aa 1-250. The exact sequence is proprietary. Database link: P30530
Positive control	WB: DU-145, HeLa, and NCI-H1299 whole cell lysates.
General notes	ab234258 is the carrier-free version of ab215205. 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. ab234258 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *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. Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough. Abcam is leading the way with our range of recombinant antibodies, knockout-validated

antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

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	EPR21107
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab234258** in the following tested applications.

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

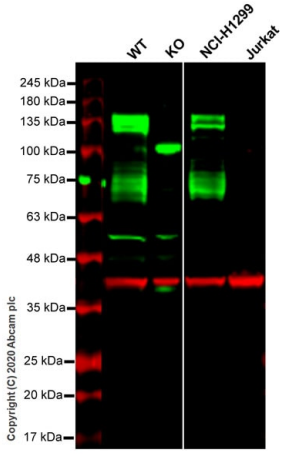
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 80, 140 kDa (predicted molecular weight: 98 kDa).

Target

Function	May function as a signal transducer between specific cell types of mesodermal origin. In case of filovirus infection, seems to function as a cell entry factor.
Tissue specificity	Highly expressed in metastatic colon tumors. Expressed in primary colon tumors. Weakly expressed in normal colon tissue.

Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. AXL/UFO subfamily. Contains 2 fibronectin type-III domains. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.
Cellular localization	Membrane.

Images



Western blot - Anti-Axl antibody [EPR21107] - BSA and Azide free (ab234258)

All lanes : Anti-Axl antibody [EPR21107] (ab215205) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : AXL knockout HeLa cell lysate
Lane 3 : NCI-H1299 cell lysate
Lane 4 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

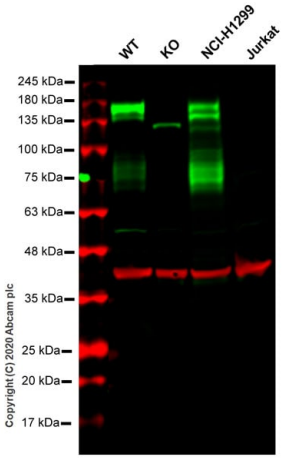
Performed under reducing conditions.

Predicted band size: 98 kDa
Observed band size: 140 kDa
why is the actual band size different from the predicted?

This data was developed using the same antibody clone in a different buffer formulation (ab215205).

Lanes 1-4: Merged signal (red and green). Green - ab215205 observed at 80,140 kDa. Red - loading control, ab8245 observed at 37 kDa.

ab215205 Anti-Axl antibody [EPR21107] was shown to specifically react with Axl in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab265392 (knockout cell lysate ab257152) was used. Wild-type and Axl knockout samples were subjected to SDS-PAGE. ab215205 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (ab216776) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Axl antibody [EPR21107] - BSA and Azide free (ab234258)

All lanes : Anti-Axl antibody [EPR21107] (ab215205) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : AXL knockout HeLa cell lysate
Lane 3 : NCI-H1299 cell lysate
Lane 4 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

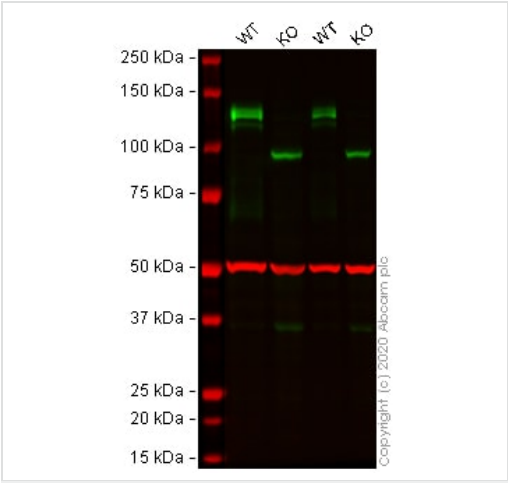
Performed under reducing conditions.

Predicted band size: 98 kDa
Observed band size: 140 kDa why is the actual band size different from the predicted?

This data was developed using the same antibody clone in a different buffer formulation (ab215205).

Lanes 1-4: Merged signal (red and green). Green - ab215205 observed at 80,140 kDa. Red - loading control, ab8245 observed at 37 kDa.

ab215205 Anti-Axl antibody [EPR21107] was shown to specifically react with Axl in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab261810 (knockout cell lysate ab257151) was used. Wild-type and Axl knockout samples were subjected to SDS-PAGE. ab215205 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Axl antibody [EPR21107] - BSA and Azide free (ab234258)

All lanes : Anti-Axl antibody [EPR21107] (ab215205) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate at 40 µg
Lane 2 : AXL knockout HeLa cell lysate at 40 µg
Lane 3 : Wild-type HeLa cell lysate at 20 µg
Lane 4 : AXL knockout HeLa cell lysate at 20 µg

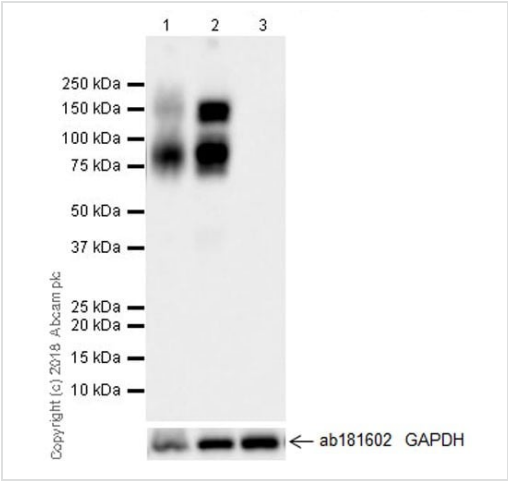
Performed under reducing conditions.

Predicted band size: 98 kDa
Observed band size: 135 kDa why is the actual band size different from the predicted?

This data was developed using the same antibody clone in a different buffer formulation (ab215205).

Lanes 1 - 4: Merged signal (red and green). Green - ab215205 observed at 135 kDa. Red - loading control, ab7291 (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

ab215205 was shown to react with Axl in western blot. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab215205 and ab7291 (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at a 1 in 1000 Dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Axl antibody [EPR21107] - BSA and Azide free (ab234258)

All lanes : Anti-Axl antibody [EPR21107] (ab215205) at 1/1000 dilution

Lane 1 : DU 145 (human prostate carcinoma cell line) whole cell lysate
Lane 2 : NCI-H1299 (human lung carcinoma cell line) whole cell lysate
Lane 3 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/5000 dilution

Developed using the ECL technique.

Predicted band size: 98 kDa
Observed band size: 140,80 kDa why is the actual band size different from the predicted?

Exposure time: 29 seconds

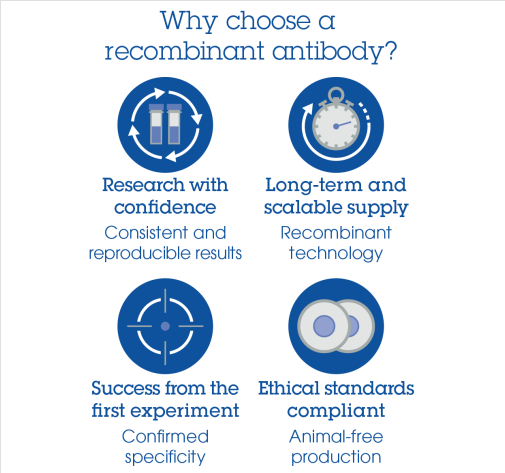
Blocking/Dilution buffer: 5% NFDM/TBST.

Negative control: Jurkat
The 140 kDa band corresponds to the full-length Axl, while the 80 kDa band could be the cleaved form of Axl (PMID: 7822279 and 19541935).

The apparent molecular mass is higher than predicted, likely due to glycosylation (PMID: 23629654).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and

sodium azide (ab215205).



Anti-Axl antibody [EPR21107] - BSA and Azide free (ab234258)

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

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