

Product datasheet

Anti-Aldolase + Aldolase C antibody [EPR19355] - Astrocyte Marker ab200049

Recombinant RabMAb

[1 References](#) [7 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-Aldolase + Aldolase C antibody [EPR19355] - Astrocyte Marker |
| Description | Rabbit monoclonal [EPR19355] to Aldolase + Aldolase C - Astrocyte Marker |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, ICC/IF, Flow Cyt (Intra) |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: Human Aldolase C full length recombinant protein; human Aldolase full length recombinant protein; HeLa, U-87 MG, C6, RAW 264.7 and NIH/3T3 whole cell lysates; human cerebellum, fetal liver, fetal heart, fetal kidney and fetal spleen lysates; rat brain and kidney lysates; mouse brain and heart lysates. ICC/IF: U-87 MG and NIH/3T3 cells. Flow Cyt (intra): U-87 MG cells. |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| Purity | Protein A purified |

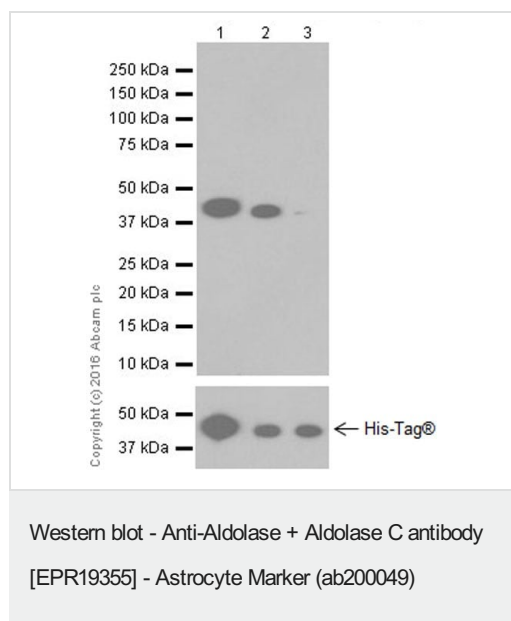
| | |
|---------------------|------------|
| Clonality | Monoclonal |
| Clone number | EPR19355 |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab200049 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 | | 1/2000. Detects a band of approximately 39 kDa (predicted molecular weight: 39 kDa). |
| ICC/IF | | 1/500. |
| Flow Cyt (Intra) | | 1/600. |

Images



All lanes : Anti-Aldolase + Aldolase C antibody [EPR19355] - Astrocyte Marker (ab200049) at 1/1000 dilution

Lane 1 : Human Aldolase C full length recombinant protein

Lane 2 : Human Aldolase full length recombinant protein

Lane 3 : Human Aldolase B full length recombinant protein

Lysates/proteins at 0.01 µg per lane.

Secondary

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

Predicted band size: 39 kDa

Observed band size: 39 kDa

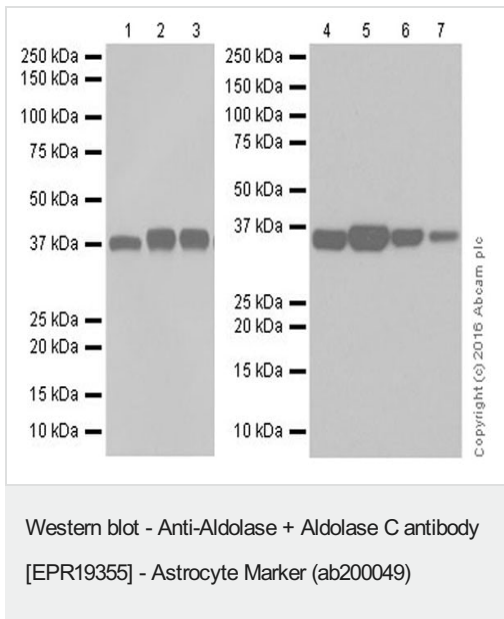
Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

Human ALDOC full length recombinant protein contains aa2-364 with a His-Tag®. Human ALDOA and ALDOB full length recombinant protein contains aa1-364 with a His-Tag®. These

three recombinant proteins were made in-house.

This product showed very weak reactivity to Aldolase B, relative to Aldolase and Aldolase C, as demonstrated by WB of recombinant proteins.



Lanes 1-3 : Anti-Aldolase + Aldolase C antibody [EPR19355] -

Astrocyte Marker (ab200049) at 1/5000 dilution

Lanes 4-7 : Anti-Aldolase + Aldolase C antibody [EPR19355] -

Astrocyte Marker (ab200049) at 1/2000 dilution

Lane 1 : HeLa (Human epithelial cell line from cervix

adenocarcinoma) whole cell lysate

Lane 2 : U 87 MG (Human glioblastoma-astrocytoma epithelial cell

line) whole cell lysate

Lane 3 : Human cerebellum lysate

Lane 4 : Human fetal liver lysate

Lane 5 : Human fetal heart lysate

Lane 6 : Human fetal kidney lysate

Lane 7 : human fetal spleenlysate

Lysates/proteins at 10 µg per lane.

Secondary

Lanes 1-3 : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at

1/100000 dilution

Lanes 4-7 : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific

to the non-reduced form of IgG at 1/10000 dilution

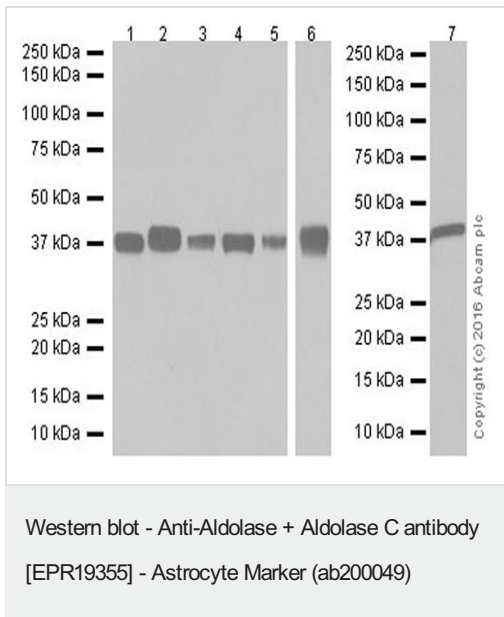
Predicted band size: 39 kDa

Additional bands at: 39 kDa (possible non-specific secondary antibody binding)

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1-3: 8 seconds; Lane 4-7: 10 seconds.

The expression profile observed is consistent with what has been described in the literature (PMID: 24475166 and 17659271).



Lanes 1-6 : Anti-Aldolase + Aldolase C antibody [EPR19355] -

Astrocyte Marker (ab200049) at 1/5000 dilution

Lane 7 : Anti-Aldolase + Aldolase C antibody [EPR19355] -

Astrocyte Marker (ab200049) at 1/2000 dilution

Lane 1 : C6 (Rat glial tumor cell line) whole cell lysate

Lane 2 : Rat brain tissue lysate

Lane 3 : Rat kidney tissue lysate

Lane 4 : Mouse heart tissue lysate

Lane 5 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

Lane 6 : Mouse brain tissue lysate

Lane 7 : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

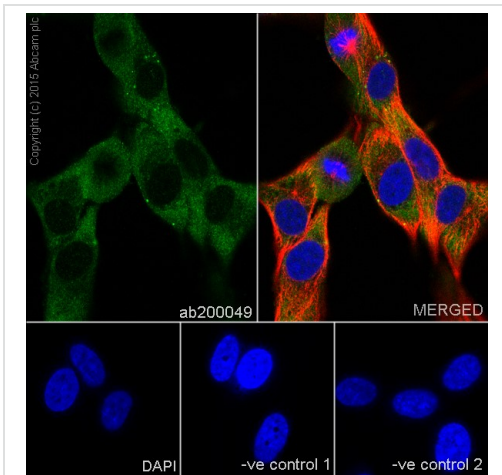
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 39 kDa

Observed band size: 39 kDa

Blocking/Dilution buffer: 5% NFD/MTBST.

Exposure time: Lane 1-5: 8 seconds; Lane 6/7: 3 seconds.



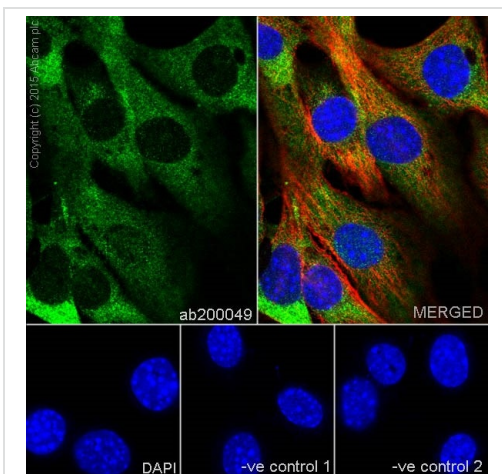
Immunocytochemistry/ Immunofluorescence - Anti-Aldolase + Aldolase C antibody [EPR19355] - Astrocyte Marker (ab200049)

Immunofluorescent analysis of 100% methanol-fixed U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells labeling Aldolase C + Aldolase with ab200049 at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on U-87 MG cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: ab200049 at 1/500 dilution followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary antibody at 1/1000 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Aldolase + Aldolase C antibody [EPR19355] - Astrocyte Marker (ab200049)

Immunofluorescent analysis of 100% methanol-fixed NIH/3T3 (Mouse embryonic fibroblast cell line) cells labeling Aldolase C + Aldolase with ab200049 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on NIH/3T3 cell line. The nuclear counter stain is DAPI (blue).

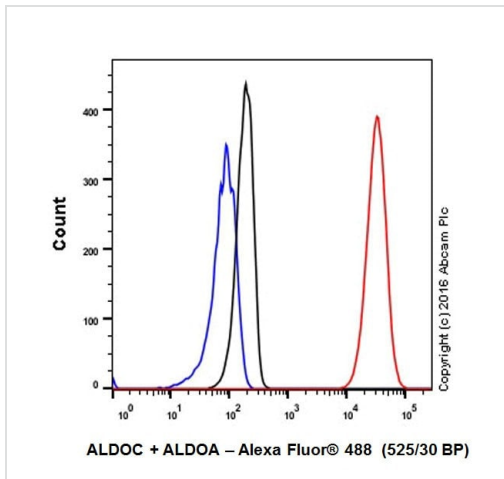
Tubulin is detected with Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: ab200049 at 1/500 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) ([ab150120](#)) secondary antibody at 1/1000 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb ([ab7291](#)) at 1/1000





dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Aldolase + Aldolase C antibody [EPR19355] - Astrocyte Marker (ab200049)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells labeling Aldolase + Aldolase C with ab200049 at 1/600 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/500 dilution was used as the secondary antibody.

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-Aldolase + Aldolase C antibody [EPR19355] - Astrocyte Marker (ab200049)

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

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