

## Product datasheet

# Anti-Lactate Dehydrogenase B/LDH-B antibody [60H11] ab85319

★★★★★ 3 Abreviews 7 References 6 Images

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-Lactate Dehydrogenase B/LDH-B antibody [60H11]   |
| <b>Description</b>         | Mouse monoclonal [60H11] to Lactate Dehydrogenase B/LDH-B   |
| <b>Host species</b>        | Mouse   |
| <b>Tested applications</b> | <b>Suitable for:</b> ICC/IF, Flow Cyt, WB, IP, ELISA, IHC-P   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse, Rat, Human   |
| <b>Immunogen</b>           | Recombinant full length protein corresponding to Human Lactate Dehydrogenase B/LDH-B.   |
| <b>Positive control</b>    | WB: HeLa, RD, Ramos, A431, Jurkat, K562 and C6 cell lysates. ICC/IF: HeLa cells. IHC-P: Human breast cancer tissue. Flow Cyt: HeLa cells. IP: HeLa whole cell extract.  |
| <b>General notes</b>       | This product was changed from ascites to tissue culture supernatant on 18th September 2017. Lot numbers higher than GR3179006 will be from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly.<br><br>Previously labelled as Lactate Dehydrogenase B. |

### Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.                   |
| <b>Storage buffer</b>       | Preservative: 0.03% Sodium azide<br>Constituents: 0.01% BSA, 50% Glycerol, 0.87% Sodium chloride, HEPES |
| <b>Purity</b>               | Tissue culture supernatant  |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | 60H11   |
| <b>Isotype</b>              | IgG2b   |
| <b>Light chain type</b>     | lambda  |

### Applications

Our [Abpromise guarantee](#) covers the use of **ab85319** in the following tested applications.

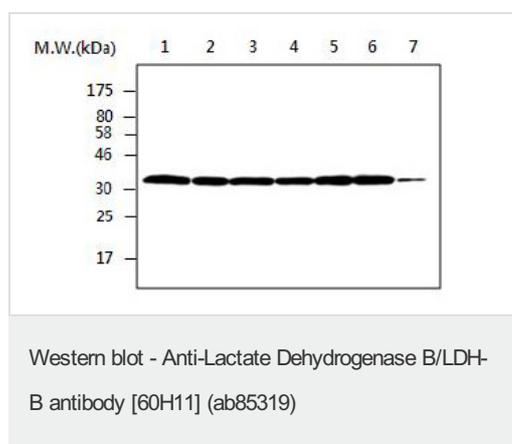
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes  |
|-------------|-----------|--|
| ICC/IF      |           | Use at an assay dependent concentration.   |
| Flow Cyt    |           | Use at an assay dependent concentration.<br><a href="#">ab170192</a> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody. |
| WB          | ★★★★★     | Use a concentration of 0.1 µg/ml. Detects a band of approximately 37 kDa (predicted molecular weight: 37 kDa).   |
| IP          |           | Use at an assay dependent concentration.<br>Use 2µg.   |
| ELISA       |           | Use at an assay dependent concentration.   |
| IHC-P       |           | Use at an assay dependent concentration.   |

## Target

|                               |  |
|-------------------------------|--|
| <b>Pathway</b>                | Fermentation; pyruvate fermentation to lactate; (S)-lactate from pyruvate: step 1/1.   |
| <b>Involvement in disease</b> | Note=Defects in LDHB result in deficiency of lactate dehydrogenase, a condition with no clear symptomatic consequences. Lactate dehydrogenase deficiency can probably be considered a non-disease. |
| <b>Sequence similarities</b>  | Belongs to the LDH/MDH superfamily. LDH family.  |
| <b>Cellular localization</b>  | Cytoplasm.   |

## Images

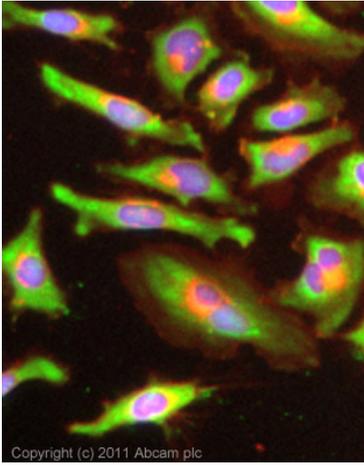


**All lanes :** Anti-Lactate Dehydrogenase B/LDH-B antibody [60H11] (ab85319) at 1/2000 dilution

- Lane 1 :** HeLa cell lysate
- Lane 2 :** RD cell lysate
- Lane 3 :** Ramos cell lysate
- Lane 4 :** A431 cell lysate
- Lane 5 :** Jurkat cell lysate
- Lane 6 :** K562 cell lysate
- Lane 7 :** C6 cell lysate

**Predicted band size:** 37 kDa

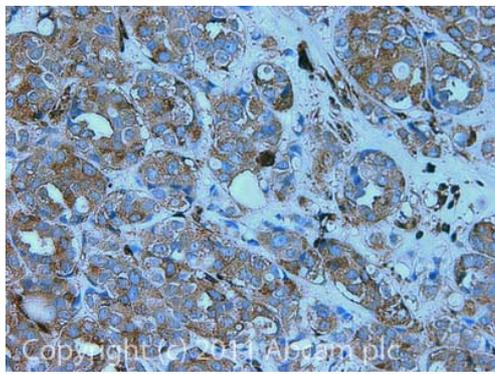
**Observed band size:** 37 kDa



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Immunocytochemistry/ Immunofluorescence - Anti-Lactate Dehydrogenase B/LDH-B antibody [60H11] (ab85319)

ICC/IF image of ab85319 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab85319, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

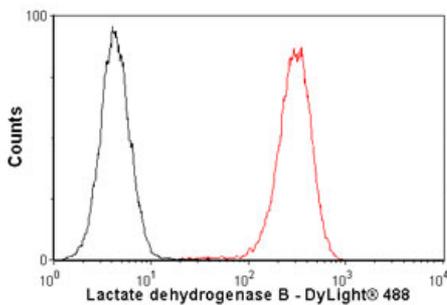


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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lactate Dehydrogenase B/LDH-B antibody [60H11] (ab85319)

IHC image of ab85319 staining in Human breast cancer formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab85319, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

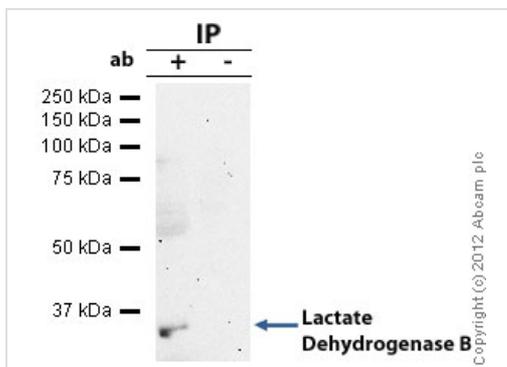


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Flow Cytometry - Anti-Lactate Dehydrogenase B/LDH-B antibody [60H11] (ab85319)

Overlay histogram showing HeLa cells stained with ab85319 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab85319, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (ab91366, 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed.

Western blot - Anti-Lactate Dehydrogenase B/LDH-B antibody [60H11] (ab85319)



Immunoprecipitation - Anti-Lactate Dehydrogenase B/LDH-B antibody [60H11] (ab85319)

Lactate Dehydrogenase B/LDH-B was immunoprecipitated using 0.5mg HeLa whole cell extract, 5µg of Mouse monoclonal to Lactate Dehydrogenase B and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, HeLa whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab85319.

Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/5000 dilution.

Band: 37kDa: lactate dehydrogenase B

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