

## Product datasheet

# Anti-BioID2 antibody [SS 3A5-E2] ab232733

★★★★★ [2 Abreviews](#) [3 Images](#)

### Overview

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<b>Product name</b>	Anti-BioID2 antibody [SS 3A5-E2]
<b>Description</b>	Mouse monoclonal [SS 3A5-E2] to BioID2
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Species independent
<b>Immunogen</b>	Fusion protein. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	ICC/IF: HeLa-BioID2-Dox cells. WB: BioID2-transfected HeLa whole cell lysate
<b>General notes</b>	<p>BioID2 is a second generation biotin protein ligase (BPL) that can be used to identify protein-protein interactions. BioID2 is derived from the hyperthermophilic bacterium <i>Aquifex aeolicus</i> and was mutated within the conserved biotin binding site (R40G) causing promiscuous protein biotinylation. BioID2 is the smallest known BPL which improves targeting of the bait protein and improves labelling of other proteins in proximity (PubMed ID 26912792).</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
<b>Purity</b>	Protein G purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	SS 3A5-E2
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

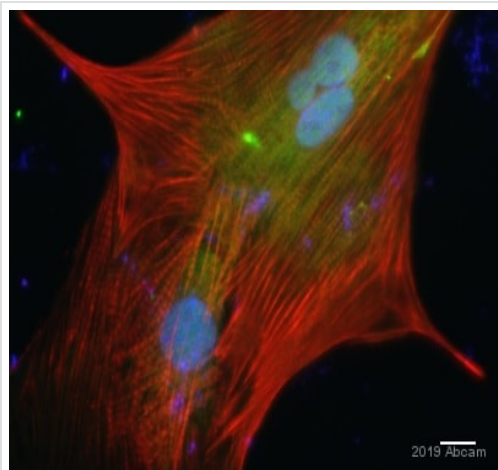
## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab232733 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
<b>ICC/IF</b>	★★★★★ (1)	Use a concentration of 1 µg/ml. This antibody gives a signal in cells fixed with 4%PFA or 100% MeOH.
<b>WB</b>	★★★★★ (1)	Use a concentration of 1 µg/ml.

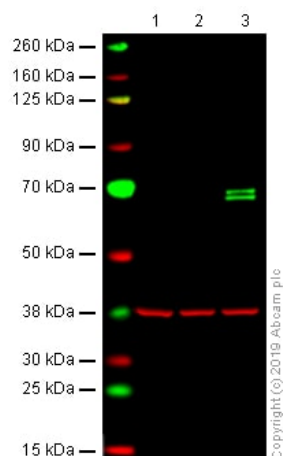
## Images



Immunocytochemistry analysis of formaldehyde-fixed Neonatal rat ventricular cardiomyocytes permeabilized with 1% (v/v) Triton X-100 for 10 min staining with ab232733 at 1/1000 dilution. Secondary antibody was Alexa Fluor® 488 AffiniPure™ F(ab')<sub>2</sub> Fragment Donkey Anti-Mouse IgG (H+L) at 1/500 dilution. Samples were incubated with the primary antibody for 24 hours. Blocking was done using 5% serum for 1 hour at 25°C.

Immunocytochemistry - Anti-BiolD2 antibody [SS 3A5-E2] (ab232733)

This image is courtesy of an Abreview submitted by Omer Shkedi



Western blot - Anti-BioID2 antibody [SS 3A5-E2] (ab232733)

**All lanes :** Anti-BioID2 antibody [SS 3A5-E2] (ab232733) at 1  $\mu\text{g/ml}$

**Lane 1 :** HeLa whole cell lysate

**Lane 2 :** BioID2-TorsinA transfected HeLa whole cell lysate, non-induced

**Lane 3 :** BioID2-TorsinA transfected HeLa whole cell lysate, DOX induced

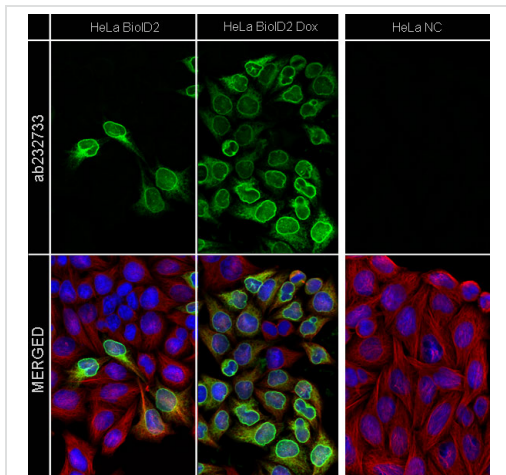
Lysates/proteins at 10  $\mu\text{g}$  per lane.

Performed under reducing conditions.

**Observed band size:** 70 kDa

This blot was produced using a 4-12% Bis-tris under the MOPS buffer system. The gel was run at 200V for 55 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was blocked for an hour using 3% milk before ab232733 and **ab181602** (Rabbit anti-GAPDH loading control) were incubated overnight at 4°C at a 1 $\mu\text{g/ml}$  concentration and 1/20000 dilution respectively. Antibody binding was detected using Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

Cell samples kindly provided by the Brian Burke laboratory, A-Star Institute, Singapore.



Immunocytochemistry/ Immunofluorescence - Anti-BioID2 antibody [SS 3A5-E2] (ab232733)

ab232733 staining BioID2 in HeLa cells expressing DOX-inducible BioID2 dystonia mutant of TorsinA. Parental HeLa cells have been used as negative control. The cells were fixed with 100% methanol (5min), permeabilized with 0.1% PBS-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 ab232733 at 1 µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control, at 1/1000 dilution. Cells were then incubated with **ab150117**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (shown in green) and **ab150084**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolor red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Cell samples kindly provided by the Brian Burke laboratory, A-Star Institute, Singapore.

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

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