

Product datasheet

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

★★★★★ 2 Abreviews 2 Images

Overview

Product name	Anti-BioID2 antibody [SS 3A5-E2]
Description	Mouse monoclonal [SS 3A5-E2] to BioID2
Host species	Mouse
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Species independent
Immunogen	Fusion protein corresponding to BioID2. (Glutathione-S-transferase fused to <i>A. aeolicus</i> BioID2 (BPL R40G)).
Positive control	ICC/IF: HeLa-BioID2-Dox cells. WB: BioID2-transfected HeLa whole cell lysate
General notes	<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 different buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p> <p>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.</p> <p>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</p>

customer reviews and Q&As.

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	Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
Purity	Protein G purified
Clonality	Monoclonal
Clone number	SS 3A5-E2
Isotype	IgG1
Light chain type	kappa

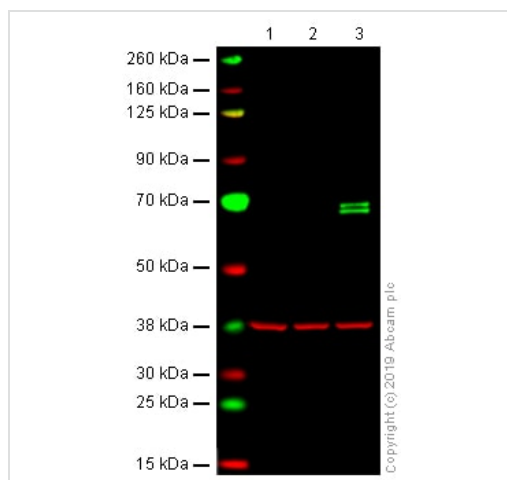
Applications

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
ICC/IF	★★★★★	Use a concentration of 1 µg/ml. This antibody gives a signal in cells fixed with 4%PFA or 100% MeOH.
WB	★★★★★	Use a concentration of 1 µg/ml.

Images



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

All lanes : Anti-BioID2 antibody [SS 3A5-E2] (ab232733) at 1 µg/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 µg per lane.

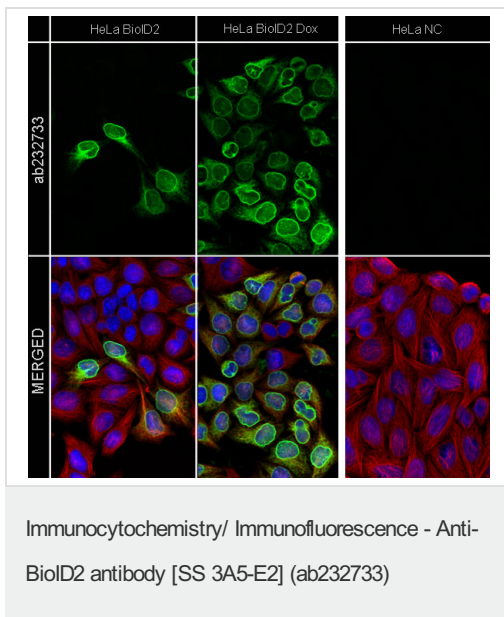
Performed under reducing conditions.

Observed band size: 70 kDa

why is the actual band size different from the predicted?

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 1ug/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.



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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