

Product datasheet

Anti-BSD antibody ab38307

★☆☆☆☆ 1 Abreviews 2 References 2 Images

Overview

Product name	Anti-BSD antibody
Description	Rabbit polyclonal to BSD
Host species	Rabbit
Specificity	The antibody detects a 13 kDa protein corresponding to the molecular mass of Bsd on SDS-PAGE immunoblots of 293 cells transfected with a lentiviral vector that expresses the Bsd gene product, but is not detected in mock transfected cells.
Tested applications	Suitable for: WB, ELISA, ICC/IF
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide conjugated to KLH corresponding to amino acid residues in the N-terminal region of Blastidin S Deaminase from <i>Aspergillus Terrus</i> .
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 50% Glycerol, PBS
Purity	Immunogen affinity purified
Purification notes	This antibody was affinity purified using the N-terminal Bsd peptide (without carrier).
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab38307 in the following tested applications.

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

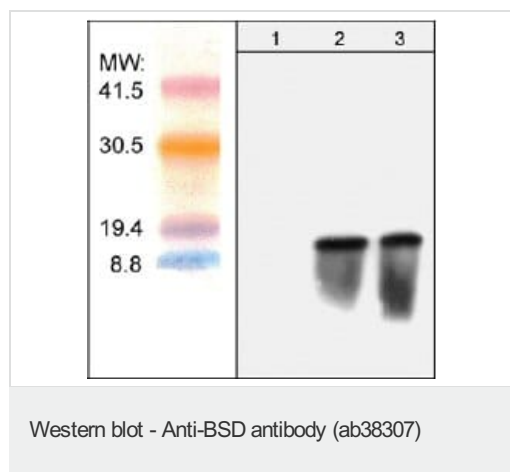
Application	Abreviews	Notes
WB		1/2000. Detects a band of approximately 13 kDa.
ELISA		1/4000.
ICC/IF		1/100.

Target

Relevance

Retroviral vectors are commonly used for gene expression in vitro and in vivo. The structure of these vectors usually consists of one gene of interest and a selectable marker gene. Fast selection without damaging cells is a critical step for significant gene expression. Blastocidin S deaminase (Bsd) isolated from *Bacillus cereus* has a neutralizing action on the highly toxic antibiotic blastocidin. A variety of commercially available retroviral vectors, such as lentiviral expression systems, utilize Bsd expression for selection using blastocidin. This selectable marker allows selection of stable mammalian cell lines in as little as one week.

Images



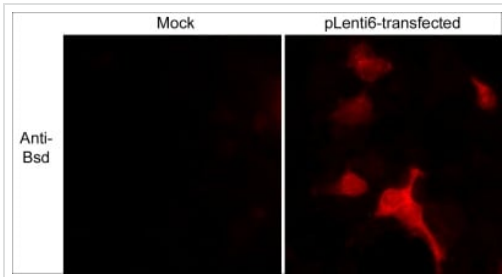
All lanes : Anti-BSD antibody (ab38307)

Lane 1 : 293 cells mock transfected

Lanes 2-3 : 293 cells transiently transfected with pLenti6/TR lentiviral vector

Observed band size: 13 kDa

Each lane was loaded with 10-20µg total protein.



Immunocytochemistry/ Immunofluorescence - Anti-BSD antibody (ab38307)

Image courtesy of Charles Mashburn and Dr. George Smith at the University of Kentucky, Spinal Cord and Brain Injury Research Center

ab38307, staining BSD in 293 cells mock transfected (left) and transiently transfected with pLenti6/TR lentiviral vector (right). The cells were fixed in paraformaldehyde (3.75%) for 30 min., then permeabilized in 0.2% Triton X-100 for 15 min. Blocking was done using 1% BSA for 30 min. The primary was used at 1/100 and then an appropriate secondary antibody conjugated to Texas Red was used.

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

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