

## Rabbit Blasticidin S Deaminase Polyclonal Antibody | anti-bsd antibody

Blasticidin S Deaminase

|                              |                       |                                                                 |
|------------------------------|-----------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA71515</b> | HOST<br><b>Rabbit</b> | APPLICATIONS<br><b>Immunocytochemistry, Western Blot, ELISA</b> |
|------------------------------|-----------------------|-----------------------------------------------------------------|

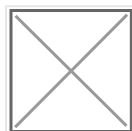
### PRODUCT SYNONYMS

Blasticidin S Deaminase; Polyclonal Antibody; BSD; anti-bsd antibody

### PRODUCT SPECIFICATIONS

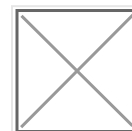
|                                               |                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                                                                                                                  |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                                                                                                              |
| Specificity                                   | This antibody was affinity purified using the N-terminal Bsd peptide (without carrier). 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. |
| Purity/Purification                           | Affinity Purified                                                                                                                                                                                                                                                                                                                       |
| Form/Format                                   | Supplied in 100 ul phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.                                                                                                                                                                                                                                        |
| Sequence Length                               | 130                                                                                                                                                                                                                                                                                                                                     |
| Applicable Applications for anti-bsd antibody | ICC (Immunocytochemistry), WB (Western Blot), ELISA                                                                                                                                                                                                                                                                                     |
| Immunogen                                     | A synthetic peptide (coupled to KLH) corresponding to amino acid residues in the N-terminal region of Blasticidin S Deaminase from Aspergillus Terrus.                                                                                                                                                                                  |
| Additional Information                        | All molecular weights (MW) are confirmed by comparison to MW standards and to western blot mobilities of known proteins with similar MW.<br>"Native" western blot utilizes non-reducing sample buffer (no mercaptoethanol or SDS), normal SDS-PAGE gel electrophoresis, and no methanol in transfer buffers.                            |
| Preparation and Storage                       | Store at -20°C. Stable for 1 year.                                                                                                                                                                                                                                                                                                      |

### IMAGES



#### ICC (Immunocytochemistry)

Immunocytochemical labeling of Blasticidin S Deaminase (Bsd) in 293 cells mock transfected (left) and transiently transfected with pLenti6/TR lentiviral vector (right). The cells were labeled with anti-Bsd (AAA71515) and detected using appropriate secondary antibody conjugated to Texas Red. (Images provided by Charles Mashburn and Dr. George Smith at the University of Kentucky, Spinal Cord and Brain Injury Research Center).



#### WB (Western Blot)

Western blot of 293 cells mock transfected (lane 1) or transiently transfected with pLenti6/TR lentiviral vector (lanes 2 & 3). Blots were probed with anti-Bsd (lanes 1 - 3). Molecular weight (MW) standards show that Bsd is expressed as a 13kDa band in only the transfected cells.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-bsd antibody | 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. Blasticidin S deaminase (Bsd) isolated from Bacillus cereus has a neutralizing action on the highly toxic antibiotic blasticidin. A variety of commercially available retroviral vectors, such as lentiviral expression systems, utilize Bsd expression for selection using blasticidin. This selectable marker allows selection of stable mammalian cell lines in as little as one week. MBS472010 is a Bsd antibody that can detect Bsd expression in cells transfected with blasticidin-selectable constructs. This antibody is useful for detection of successful gene transfer in constructs that utilize blasticidin selection. |
| References                                        | <ul style="list-style-type: none"><li>• Kimura M, et al. (1994). Biochim Biophys Acta. 1219(3):653-9.</li><li>• Izumi M, et al. (1991). Exp Cell Res. 197(2):229-33.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                           |                         |
|---------------------------|-------------------------|
| NCBI GI #                 | 143955286               |
| NCBI Accession #          | P0C2P0.1                |
| NCBI GenBank Nucleotide # | P0C2P0                  |
| UniProt Accession #       | P0C2P0; P78986; Q0CGS9  |
| NCBI Official Full Name   | Blasticidin-S deaminase |
| NCBI Official Symbol      | bsd                     |
| UniProt Protein Name      | Blasticidin-S deaminase |
| UniProt Gene Name         | bsd                     |
| UniProt Entry Name        | BSD_ASPTE               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/blastidin-s-deaminase-antibody-immunocytochemistry-western-blot-elisa/71515>