

# Blasticidin S Deaminase Blocking Peptide

Cat. # **BX1235**  
Size **50 µg**

## **Background:**

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. Catalog# BP1231 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:**

Kimura M, et al. (1994). *Biochim Biophys Acta*. 1219(3):653-9.  
Izumi M, et al. (1991). *Exp Cell Res*. 197(2):229-33.

## **Peptide Sequence:**

A synthetic peptide corresponding to amino acid residues in the N-terminal region of Blasticidin S Deaminase from *Aspergillus Terrus*.

## **Buffer and Storage:**

Blocking Peptide is supplied in 50µl phosphate-buffered saline and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

## **Applications:**

Antibody Blocking            1 µg/ml<sup>1</sup>  
ELISA                            10-100 ng/well<sup>2</sup>

End user should determine optimal concentration dependent on the concentration of the antibody.

<sup>1</sup>Recommended for blocking antibody reactivity in Western blot and immunocytochemistry.

<sup>2</sup>Established in 96-well Nunc immunoplates where peptide was bound to plates for 2 hrs in 0.1 M sodium carbonate buffer, pH 8.5.

## **Specificity:**

The peptide is specifically recognized by anti-Blasticidin S Deaminase antibody (BP1231) in ELISA, and is recommended for use in blocking BP1231 reactivity in Western blot and immunocytochemistry.

## **Related Products:**

BP1231 Blasticidin S Deaminase Rabbit Polyclonal

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