



Product datasheet

Anti-Beta Lactamase antibody [8A5.A10] ab12251

27 References

Overview

Product name	Anti-Beta Lactamase antibody [8A5.A10]
Description	Mouse monoclonal [8A5.A10] to Beta Lactamase
Host species	Mouse
Specificity	This antibody specifically recognizes TEM type beta lactamases.
Tested applications	Suitable for: ELISA, WB
Species reactivity	Reacts with: Escherichia coli
Immunogen	Recombinant full length protein corresponding to Mouse Beta Lactamase. Database link: P62593
	 Run BLAST with  Run BLAST with
General notes	<p>Dilute in PBS or medium which is identical to that used in the assay system.</p> <p>This product was changed from ascites to tissue culture supernatant on 19/12/2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions please do not hesitate to contact our scientific support team.</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&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	pH: 7.40 Constituent: PBS
Purity	Protein G purified
Purification notes	Purified from TCS
Clonality	Monoclonal

Clone number	8A5.A10
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab12251 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
ELISA		Use a concentration of 10 - 20 µg/ml.
WB		Use a concentration of 10 µg/ml. Predicted molecular weight: 31.5 kDa. (31.5kDa is the molecular weight of the unprocessed precursor.)

Target

Relevance The beta lactam antibiotics (penicillins and cephalosporins) are the most frequently used antimicrobial agents. All of the beta lactams are structurally related through the presence of a core beta lactam ring. Bacterial resistance to beta lactams continues to increase, primarily due to the production of beta lactamases. Beta lactamases catalyze the hydrolysis of the beta lactam bond, which destroys antibacterial activity. Bacteria that produce TEM type or SHV type beta lactamases have point mutations in structural genes that have extended the substrate specificity of these beta lactamases. As a result, many of the beta lactamase producing Gram negative pathogens have become multidrug resistant.

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