

## Product datasheet

# Anti-BPI antibody [EPR12350(B)] - BSA and Azide free ab249881

Recombinant RabMAb

[4 Images](#)

### Overview

<b>Product name</b>	Anti-BPI antibody [EPR12350(B)] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR12350(B)] to BPI - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, ICC/IF <b>Unsuitable for:</b> IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab249881 is the carrier-free version of <a href="#">ab175231</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12350(B)
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab249881 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
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 54 kDa.
ICC/IF		Use at an assay dependent concentration.

**Application notes** Is unsuitable for IHC-P or IP.

## Target

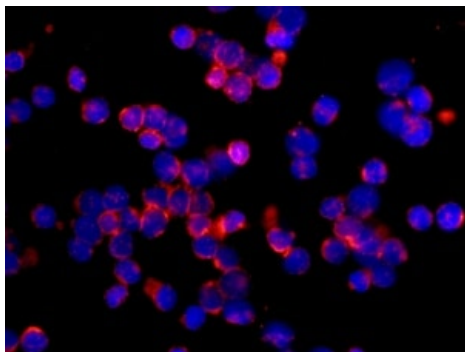
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**Relevance** The antimicrobial protein Bactericidal Permeability Increasing protein (BPI) is a 55 kDa protein found in the primary granules of polymorphonuclear leukocytes (PMN). The cytotoxicity action of BPI is limited to gram negative bacteria, reflecting the high affinity of BPI for bacterial LPS. Binding of BPI to live bacteria via LPS causes anti-infective activities: 1) cytotoxicity via sequential damage to bacterial outer and inner lipid membranes, 2) neutralization of gram-negative bacterial LPS, 3) opsonization of bacteria to enhance phagocytosis by neutrophils.

**Cellular localization** Cell Membrane and Secreted. Membrane associated in polymorphonuclear Leukocytes (PMN) granules.

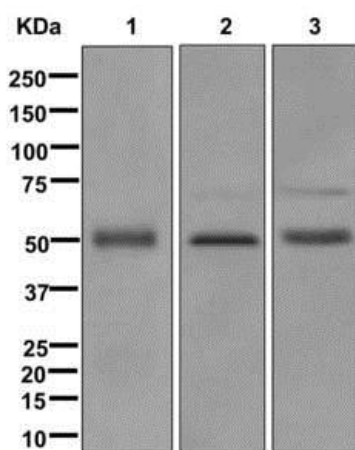
## Images

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Immunocytochemistry/ Immunofluorescence - Anti-BPI antibody [EPR12350(B)] - BSA and Azide free (ab249881)

This data was developed using **ab175231**, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of HL60 cells labeling BPI with **ab175231** at 1/100 (red) and DAPI staining (blue).



Western blot - Anti-BPI antibody [EPR12350(B)] - BSA and Azide free (ab249881)

**All lanes** : Anti-BPI antibody [EPR12350(B)] (**ab175231**) at 1/1000 dilution

**Lane 1** : Human bone marrow lysate

**Lane 2** : THP1 lysate

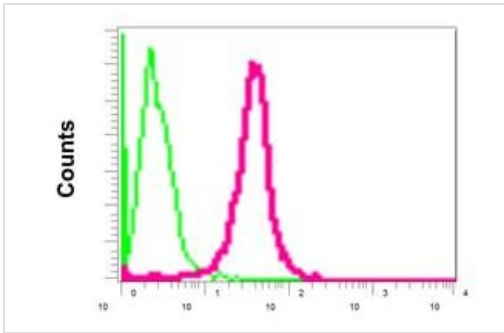
**Lane 3** : HL60 lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 54 kDa

**Additional bands at:** 50-60 kDa. We are unsure as to the identity of these extra bands.

This data was developed using **ab175231**, the same antibody clone in a different buffer formulation.







Flow Cytometry (Intracellular) - Anti-BPI antibody  
[EPR12350(B)] - BSA and Azide free (ab249881)

This data was developed using **ab175231**, the same antibody clone in a different buffer formulation.

Intracellular flow cytometrical analysis of permeabilized THP1 cells labeling BPI with **ab175231** antibody at 1/100 (red) or a rabbit IgG (green).

Why choose a recombinant antibody?

 <b>Research with confidence</b> Consistent and reproducible results	 <b>Long-term and scalable supply</b> Recombinant technology
 <b>Success from the first experiment</b> Confirmed specificity	 <b>Ethical standards compliant</b> Animal-free production

Anti-BPI antibody [EPR12350(B)] - BSA and Azide free (ab249881)

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

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