Product datasheet

PE Anti-beta 2 Microglobulin antibody [B2M-01]  
ab49424

2 References

Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>PE Anti-beta 2 Microglobulin antibody [B2M-01]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>PE Mouse monoclonal [B2M-01] to beta 2 Microglobulin</td>
</tr>
<tr>
<td>Host species</td>
<td>Mouse</td>
</tr>
<tr>
<td>Conjugation</td>
<td>PE. Ex: 488nm, Em: 575nm</td>
</tr>
<tr>
<td>Specificity</td>
<td>This antibody reacts with beta 2 microglobulin (b2M) associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble beta 2 microglobulin. Beta 2 microglobulin is a 12 kDa Ig like glycoprotein expressed on lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells and epithelial cells. It is absent on erythrocytes.</td>
</tr>
</tbody>
</table>

Tested applications  
Suitable for: Flow Cyt

Species reactivity  
Reacts with: Human
Does not react with: Mouse, Rabbit, Chicken, Cow, Dog

Immunogen  
Full length native protein (purified) (Human)

Positive control  
Peripheral blood lymphocytes.

General notes  
The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.

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.

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

Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at +4°C.</td>
</tr>
</tbody>
</table>
| Storage buffer | pH: 7.4  
Preservative: 0.097% Sodium azide |
Constituents: PBS, 0.2% BSA

Purity
Size exclusion

Clonality
Monoclonal

Clone number
B2M-01

Isotype
IgG2a

Applications

The Abpromise guarantee
Our Abpromise guarantee covers the use of ab49424 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Target

Function
Component of the class I major histocompatibility complex (MHC). Involved in the presentation of peptide antigens to the immune system.

Involvement in disease
Defects in B2M are the cause of hypercatabolic hypoproteinemia (HYCATHYP) [MIM:241600]. Affected individuals show marked reduction in serum concentrations of immunoglobulin and albumin, probably due to rapid degradation.
Note=Beta-2-microglobulin may adopt the fibrillar configuration of amyloid in certain pathologic states. The capacity to assemble into amyloid fibrils is concentration dependent. Persistently high beta(2)-microglobulin serum levels lead to amyloidosis in patients on long-term hemodialysis.

Sequence similarities
Belongs to the beta-2-microglobulin family. Contains 1 Ig-like C1-type (immunoglobulin-like) domain.

Post-translational modifications
Glycation of Ile-21 is observed in long-term hemodialysis patients.

Cellular localization
Secreted. Detected in serum and urine.

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

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