Product datasheet

Anti-beta 2 Microglobulin antibody [B2M-01] (Phycoerythrin) ab49424

2 References

Overview

Product name Anti-beta 2 Microglobulin antibody [B2M-01] (Phycoerythrin)
Description Mouse monoclonal [B2M-01] to beta 2 Microglobulin (Phycoerythrin)
Host species Mouse
Conjugation Phycoerythrin. Ex: 488nm, Em: 575nm
Specificity 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.
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.

Properties

Form Liquid
Storage instructions Shipped at 4°C. Store at +4°C.
Storage buffer Preservative: 0.097% Sodium azide
Constituents: PBS, 0.2% BSA
Purity Size exclusion
Clonality Monoclonal
Clone number B2M-01
Isotype IgG2a

Applications
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.

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>Use a concentration of 5 µg/ml.</td>
<td></td>
</tr>
</tbody>
</table>

Target

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors