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

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: 15mM Sodium Azide
Constituents: 0.2% BSA, PBS

Purity: Size exclusion

Clonality: Monoclonal

Clone number: B2M-01

Isotype: IgG2a
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.

Target

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

Applications

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.

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