**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  
**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  
**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.

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