abcam

Product datasheet

Anti-beta 2 Microglobulin antibody [BBM.1] ab18605

5 References

Overview

Product name	Anti-beta 2 Microglobulin antibody [BBM.1]
Description	Mouse monoclonal [BBM.1] to beta 2 Microglobulin
Host species	Mouse
Specificity	ab18605 binds significantly to fibroblasts and lymphocytes from humans and primates and can be used for the detection of beta 2 microglobulin in myeloma and other conditions. ab18605 binds equivalently to free and HLA-associated beta 2 microglobulin.
Tested applications	**Suitable for:** IP
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus corresponding to Human beta 2 Microglobulin. Molt 4, a human T cell line.
General notes	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

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	BBM.1
Isotype	IgG2b

Applications

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The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab18605 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
IP		Use at an assay dependent concentration.

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.

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