

Product datasheet

Biotin Anti-beta 2 Microglobulin antibody [B2M-01] ab21899

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Overview

Product name	Biotin Anti-beta 2 Microglobulin antibody [B2M-01]
Description	Biotin Mouse monoclonal [B2M-01] to beta 2 Microglobulin
Host species	Mouse
Conjugation	Biotin
Specificity	This antibody reacts with beta 2 Microglobulin associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble beta 2 Microglobulin.
Tested applications	Suitable for: IHC-P, 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	This antibody gave a positive result in IHC in the following FFPE tissue: Human normal lung. Flow Cytometry: Human peripheral blood.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Protein A purified

Clonality	Monoclonal
Clone number	B2M-01
Isotype	IgG2a

Applications

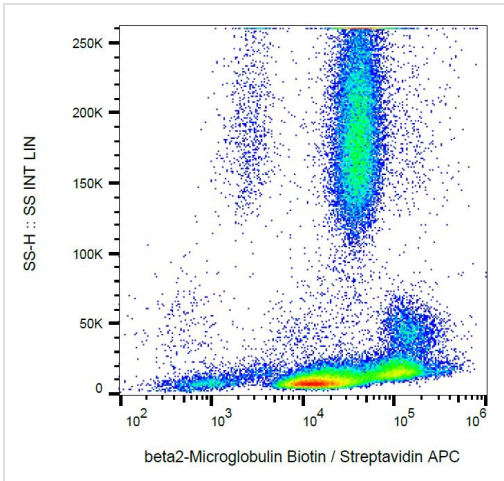
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab21899 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 10 µg/ml.
Flow Cyt		Use at an assay dependent concentration.

Target

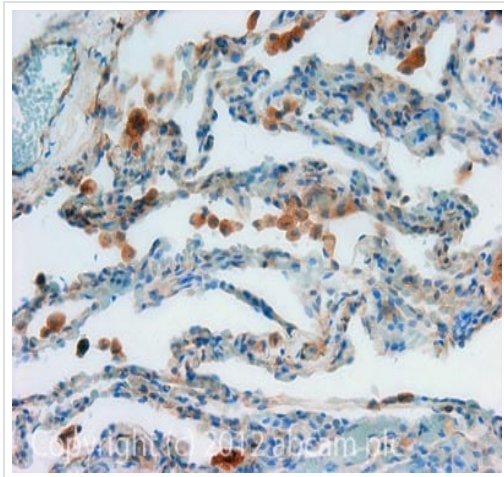
Function	Component of the class I major histocompatibility complex (MHC). Involved in the presentation of peptide antigens to the immune system.
Involvement in disease	Defects in B2M are the cause of hypercatabolic hypoproteinemia (HYCATHYP) [MIM:241600]. Affected individuals show marked reduction in 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.

Images



Flow Cytometry - Biotin Anti-beta 2 Microglobulin antibody [B2M-01] (ab21899)

Flow cytometry analysis using anti-beta2 microglobulin (B2M-01) biotin for surface staining of beta2-microglobulin in human peripheral blood



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Biotin Anti-beta 2 Microglobulin antibody [B2M-01] (ab21899)

IHC image of beta 2 Microglobulin staining in human normal lung formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab21899, 10µg/ml, for 15 mins at room temperature and detected using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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