Product Datasheet

Anti-Beta-2 microglobulin [BBM.1] (orb613794)

Catalog Number	orb613794
Category	Antibodies
Description	Mouse monoclonal antibody to beta2 microglobulin
Target	Beta-2 microglobulin
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG2b
Conjugation	Unconjugated
Reactivity	Human
Concentration	1 mg/ml
Buffer/Preservatives	PBS with 0.02% Proclin 300.
Purity	Purified
Immunogen	Molt 4, a human T cell line.
UniProt ID	P61769
Tested applications	IF, IHC, WB
Specificity	Binds human beta-2-microglobulin, a component of MHC class I molecules, which are present on all nucleated cells (excludes red blood cells) and involved in the presentation of peptide antigens to the immune system.
Clone Number	BBM.1

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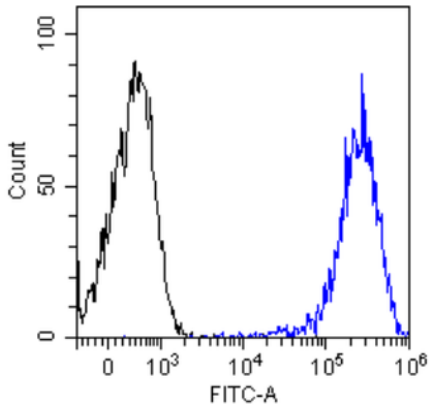
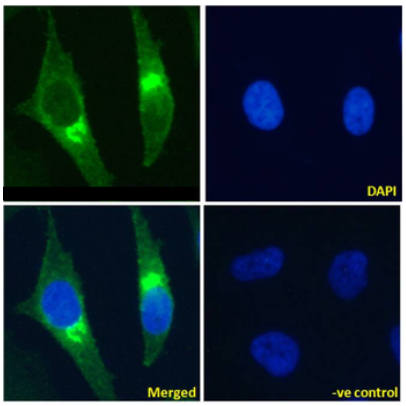
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Flow-cytometry using the anti-Beta-2 microglobulin antibody BBM.1 HeLa cells were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of BBM.1 (orb613793, blue line) at a concentration of 10 µg/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody (129936) at 2 µg/ml and cells analyzed on a FACSCanto flow-cytometer.



Immunofluoresence staining of fixed HeLa cells with anti-Beta-2 microglobulin antibody BBM.1. Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton stained with the chimeric rabbit IgG version of BBM.1 (orb613793) at 10 µg/ml for 1h followed by Alexa Fluor® 488 secondary antibody (1 µg/ml), showing endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom orb613793, DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor® 488 secondary antibody.

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Western Blot using anti-Beta-2 microglobulin antibody BBM.1 HeLa cell lysate (35 µg protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of BBM.1 (orb613793) at 0.03 µg/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for Beta-2 microglobulin is 13.7 kDa. orb613793 successfully detected human Beta-2 microglobulin in both HeLa cell extract and human duodenum samples.

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