

beta-2 Microglobulin Monoclonal Antibody (B2M-01), Alexa Fluor™ 647

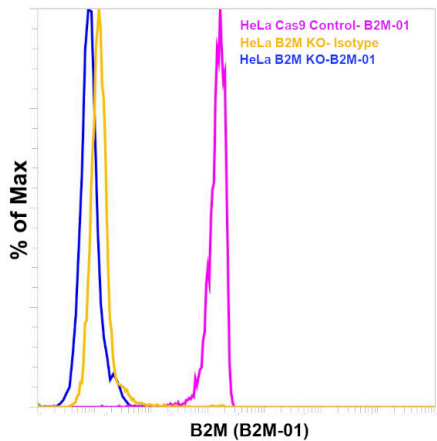
Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	B2M-01
Conjugate	Alexa Fluor™ 647
Excitation/Emission Max	650/671 nm
Immunogen	Purified human beta2-microglobulin
Form	Liquid
Concentration	1 mg/mL
Purification	Size-exclusion chromatography
Storage buffer	PBS, pH 7.4
Contains	15mM sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2539493

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Immunocytochemistry (ICC/IF)	Assay-dependent	-
Flow Cytometry (Flow)	1-5 µg/mL	-

Product Specific Information

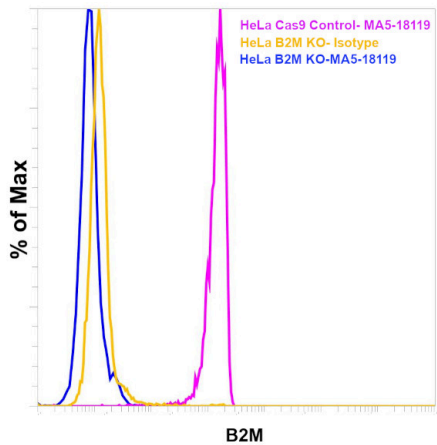
This antibody reacts with beta2-microglobulin associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble beta2-microglobulin. It will not cross-react with mouse, rabbit, canine, chicken or bovine.

Product Images For beta-2 Microglobulin Monoclonal Antibody (B2M-01), Alexa Fluor™ 647



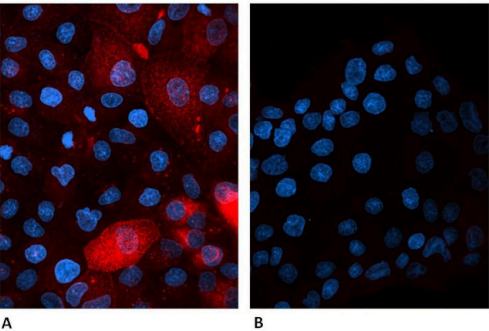
beta-2 Microglobulin Antibody (MA5-18119)

Antibody clone (B2M-01) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in B2M KO cells (blue histogram) compared to the control Cas9 cells (pink histogram) using B2M antibody (B2M-01) (Product # MA5-18119). Yellow histogram represents staining with the isotype control. {KO}



beta-2 Microglobulin Antibody (MA5-18119) in Flow

Knockout of B2M was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, Assay ID CRISPR983707_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Flow cytometry analysis of B2M was performed by staining HeLa B2M Knock out cells with 0.5 µg Mouse / IgG2a AF647 (Product # 51-4724-81, yellow histogram) or 0.5 µg beta-2 Microglobulin Monoclonal Antibody (B2M-01), Alexa Fluor™ 647 (Product # MA5-18119, blue histogram). HeLa Cas9 control cells were also stained with 0.5 µg beta-2 Microglobulin Monoclonal Antibody (B2M-01), Alexa Fluor™ 647 (Product # MA5-18119, pink histogram). Loss of signal was observed in the B2M KO cells stained with B2M antibody clone B2M-01 but not in the control Cas9 cells. Viable cells were used for analysis, as determined by Fixable Viability Dye eFluor™ 780 (Product # 65-0865-18). (Product # 65-0865-18).



beta-2 Microglobulin Antibody (MA5-18119) in ICC/IF

Immunocytochemistry analysis of human 2-microglobulin-transfected canine cells labeled A) with B2M-01 Monoclonal antibody Alexa Fluor® 647 conjugate (Product # MA5-18119) and B) with Alexa Fluor® 647 conjugated Mouse IgG2a Isotype Control. Cells were fixed with 4% PFA and permeabilized with 0.1% PBS-Tween20 containing 2% BSA. Antibody concentration 2 µg/mL.

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