

Datasheet for ABIN93906

anti-beta-2 Microglobulin antibody (HRP)





Go to Product page

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Quantity:	0.1 mg
Target:	beta-2 Microglobulin (B2M)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This beta-2 Microglobulin antibody is conjugated to HRP
Application:	Western Blotting (WB), ELISA

Product Details

Product Details	
Immunogen:	Purified human beta2-microglobulin
Clone:	B2M-01
Isotype:	lgG2a
Specificity:	The mouse monoclonal antibody B2M-01 reacts with beta2-microglobulin (beta2M, extracellular antigen), associated with cell-surface MHC Class I molecules and other membrane antigens, as well as it reacts with soluble beta2-microglobulin. Beta2M is a 12 kDa Ig like glycoprotein expressed on lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells and epithelial cells. It is absent on erythrocytes.
No Cross-Reactivity:	Chicken, Cow, Dog, Mouse, Rabbit
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with activated horseradish peroxidase (HRP) of high specific enzyme activity under optimum conditions and unconjugated antibody and free HRP are

removed by size-exclusion chromatography.

Target	Detai	ls
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Target:	beta-2 Microglobulin (B2M)	
Alternative Name:	beta2-Microglobulin (B2M Products)	
Background:	Beta-2-microglobulin,Beta2-microglobulin non-covalently associates with the 44 kDa alpha chain to forms the HLA Class I antigen complex. Human beta2-microglobulin associated with HLA Class I antigens is expressed on many types of cells including lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells, and epithelial cells. It is absent on	
	erythrocytes.,B2M	
Gene ID:	erythrocytes.,B2M 567	
Gene ID: UniProt:		

Application Details

Application Notes:	Western blotting: Recommended dilution: 1 µg/mL, positive control: peripheral blood
	lymphocytes, negative control: DAUDI human Burkitt lymphoma cell line, erythrocytes.
Comment:	The purified antibody is conjugated with horseradish peroxidase (HRP) of high specific activity and RZ=3.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 0.01 % thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.

Handling

Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.
Publications	

Product cited in:

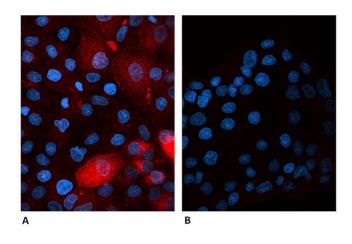
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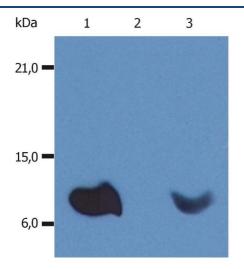
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Images



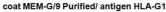
Immunofluorescence

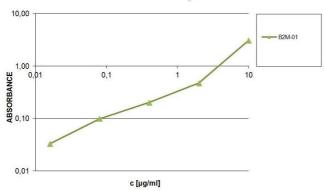
Image 1. Confocal microscopy of human β 2-microglobulin-transfected canine cells labeled A) with B2M-01 antibody Alexa Fluor® 647 conjugate and B) with Alexa Fluor® 647 conjugated Mouse IgG2a Isotype Control (A6-458-C100). Cells were fixed with 4% PFA and permeabilized with 0.1% PBS-Tween20 containing 2% BSA. Antibody concentration 2μ g/ml.



Western Blotting

Image 2. Western Blotting Western Blotting analysis (non-reducing conditions) of whole cell lysate of various cell lines using anti-human β 2-microglobulin (B2M-01). Lane 1: RAJI human Burkitt lymphoma cell line Lane 2: EL4 mouse lymphoblastic lymphoma cell line Lane 3: U937 human histiocytic lymphoma cell line





ELISA

Image 3. ELISA analysis of HLA-G and β 2-microglobulin in supernatant of HLA-G transfectants with anti- β 2-microglobulin (B2M-01) HRP as the detection antibody.