Product Datasheet

beta 2 Microglobulin/B2m Rabbit Polyclonal Antibody (orb614096)

Catalog Number	orb614096
Category	Antibodies
Description	Anti-beta 2 Microglobulin/B2m Antibody. Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Mouse, Rat.
Target	Small ubiquitin-related modifier 2/3
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	Rabbit IgG
Conjugation	Unconjugated
Reactivity	Mouse, Rat
Form/Appearance	Lyophilized
Concentration	500 µg/ml
Buffer/Preservatives	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Immunogen	E.coli-derived rat beta 2 Microglobulin/B2m recombinant protein (Position: I21-M119).
UniProt ID	P01887

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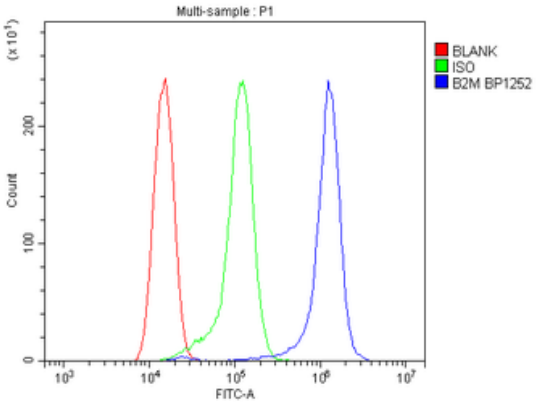
MW	13 kDa
Tested applications	ELISA, FC, ICC, IF, WB
Dilution range	Western blot, 0.1-0.25µg/ml, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5µg/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3µg/1x10^6 cells, Rat ELISA, 0.1-0.5µg/ml,
Specificity	No cross reactivity with other proteins.
Cross Reactivity	No cross-reactivity with other proteins
Antibody Type	Primary Antibody
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 analysis of RH35 cells using anti-Beta 2 Microglobulin/B2m antibody. Overlay histogram showing RH35 cells (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Beta 2 Microglobulin/B2m Antibody (1 µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10 µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10^6) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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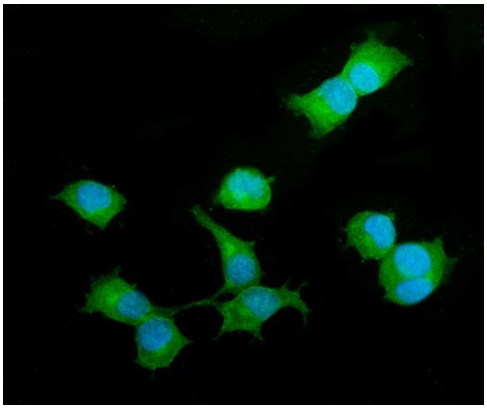
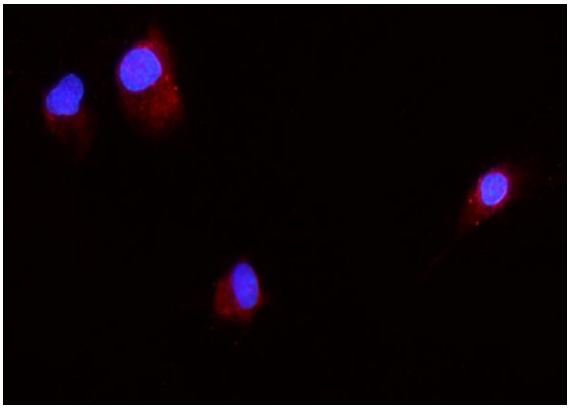


IF analysis of Beta 2 Microglobulin/B2m using anti-Beta 2 Microglobulin/B2m antibody. Beta 2 Microglobulin/B2m was detected in immunocytochemical section of HEPA1-6 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2 µg/mL rabbit anti-Beta 2 Microglobulin/B2m Antibody overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of Beta 2 Microglobulin/B2m using anti-Beta 2 Microglobulin/B2m antibody. Beta 2 Microglobulin/B2m was detected in immunocytochemical section of NRK cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2 µg/mL rabbit anti-Beta 2 Microglobulin/B2m Antibody overnight at 4°C. DyLight®594 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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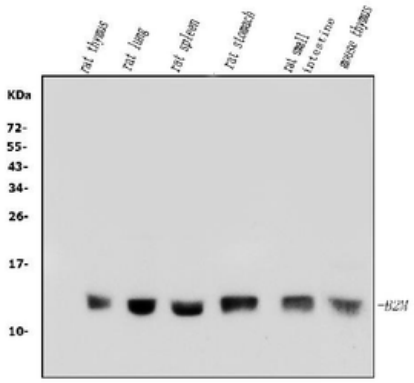

Western blot analysis of Beta 2 Microglobulin/B2m using anti-Beta 2 Microglobulin/B2m antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50 ug of sample under reducing conditions. Lane 1: rat thymus tissue lysates, Lane 2: rat lung tissue lysates, Lane 3: rat spleen tissue lysates, Lane 4: rat stomach tissue lysates, Lane 5: rat small intestine tissue lysates, Lane 6: mouse thymus tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Beta 2 Microglobulin/B2m antigen affinity purified polyclonal antibody at 0.25 µg/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Beta 2 Microglobulin/B2m at approximately 13 KD. The expected band size for Beta 2 Microglobulin/B2m is at 13 KD.

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