

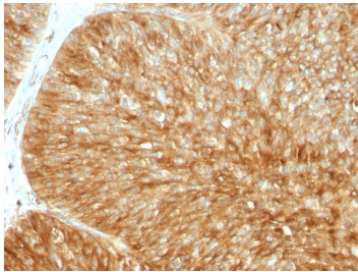
Recombinant B2M Antibody / Beta-2 Microglobulin [clone B2M/1857R] (V3539)

Catalog No.	Formulation	Size
V3539-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3539-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3539SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3539IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

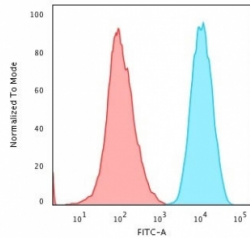
Recombinant RABBIT MONOCLONAL

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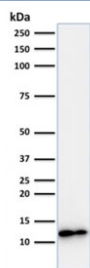
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	B2M/1857R
Purity	Protein A affinity chromatography
UniProt	P61769
Localization	Cytoplasmic
Applications	<p>Western Blot : 1-2ug/ml</p> <p>Flow Cytometry : 1-2ug/10⁶ cells</p> <p>Immunofluorescence : 2-4ug/ml</p> <p>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT</p> <p>Prediluted IHC Only Format : incubate for 30 min at RT (1)</p>
Limitations	This recombinant B2M antibody is available for research use only.



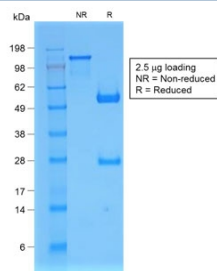
IHC testing of FFPE human bladder carcinoma stained with recombinant B2M antibody (B2M/1857R). Required HEIR: boil tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.



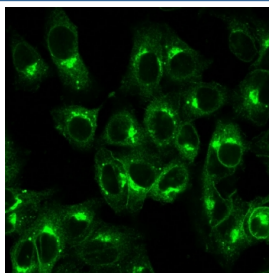
Flow cytometry testing of PFA-fixed human HeLa cells with recombinant B2M antibody (clone B2M/1857R); Red=isotype control, Blue= recombinant B2M antibody.



Western blot testing of human Raji cell lysate with recombinant B2M antibody (clone B2M/1857R). Expected molecular weight: 12-14 kDa.



SDS-PAGE analysis of purified, BSA-free recombinant B2M antibody (clone B2M/1857R) as confirmation of integrity and purity.



Immunofluorescent staining of PFA-fixed human HeLa cells with recombinant B2M antibody (clone B2M/1857R).

Description

Recognizes a protein of 12kDa, identified as beta-2 microglobulin. Major histocompatibility complex (MHC) class 1 molecules bind to antigens for presentation on the surface of cells. The proteasome is responsible for producing these antigens from the components of foreign pathogens. MHC class 1 molecules consist of an alpha heavy chain that contains three subdomains (alpha1, alpha2, alpha3) and a non-covalent associating light chain, known as beta-2-Microglobulin. Beta-2-Microglobulin associates with the alpha3 subdomain of the alpha heavy chain and forms an immunoglobulin domain-like structure that mediates proper folding and expression of MHC class 1 molecules. The alpha1 and alpha2 domains of the alpha heavy chain form the peptide antigen-binding cleft. Mutations in the beta-2-Microglobulin gene can enhance the progression of malignant melanoma phenotypes.

Application Notes

Optimal dilution of the recombinant B2M antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Full length recombinant human protein was used as the immunogen for the recombinant B2M antibody.

Storage

Store the recombinant B2M antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).