

# Product Datasheet

## beta 2-Microglobulin Antibody (3F9-2C2) - Azide and BSA Free H00000567-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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### Publications: 2

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**H00000567-M01**

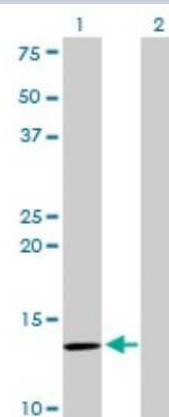
beta 2-Microglobulin Antibody (3F9-2C2) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3F9-2C2
Preservative	No Preservative
Isotype	IgG2b Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	567
Gene Symbol	B2M
Species	Human
Specificity/Sensitivity	B2M - beta-2-microglobulin
Immunogen	B2M (AAH32589, 1 a.a. ~ 119 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSD IEVDLLKNGERIEKVEHSDLSFSKDWSFYLLYYTEFTPTEKDEYACRVNHVTL QPKIVKWDRDM
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Proximity Ligation Assay, Knockdown Validated
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Proximity Ligation Assay, Knockdown Validated
Application Notes	Antibody reactivity against recominant protein and cell lysate for WB. It has been used for IF, IHC-P, RNAi Validation and ELISA. Use in Immunohistochemistry reported in scientific literature (PMID: 24736453).

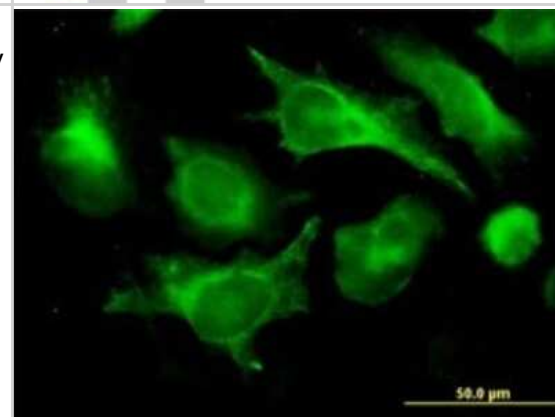


## Images

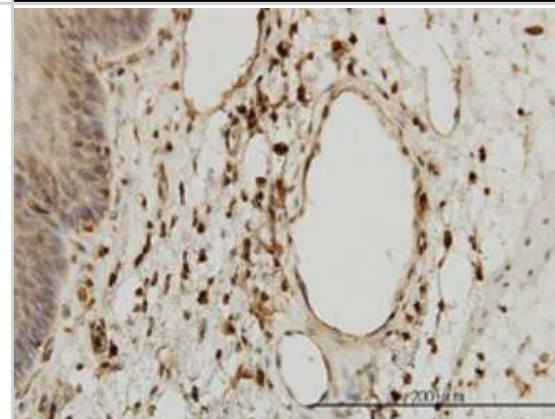
Western Blot: beta 2-Microglobulin Antibody (3F9-2C2) [H00000567-M01] - Analysis of B2M expression in transfected 293T cell line by B2M monoclonal antibody (M01), clone 3F9-2C2. Lane 1: B2M transfected lysate (13.7 KDa). Lane 2: Non-transfected lysate.



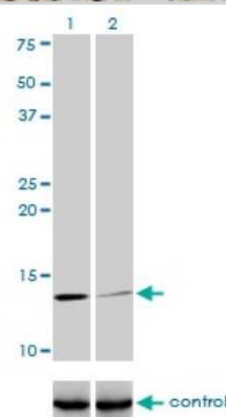
Immunocytochemistry/Immunofluorescence: beta 2-Microglobulin Antibody (3F9-2C2) [H00000567-M01] - Analysis of monoclonal antibody to B2M on HeLa cell. Antibody concentration 10 ug/ml.



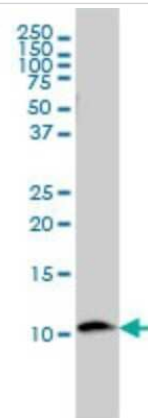
Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (3F9-2C2) [H00000567-M01] - Analysis of monoclonal antibody to B2M on formalin-fixed paraffin-embedded human esophagus. Antibody concentration 3 ug/ml.



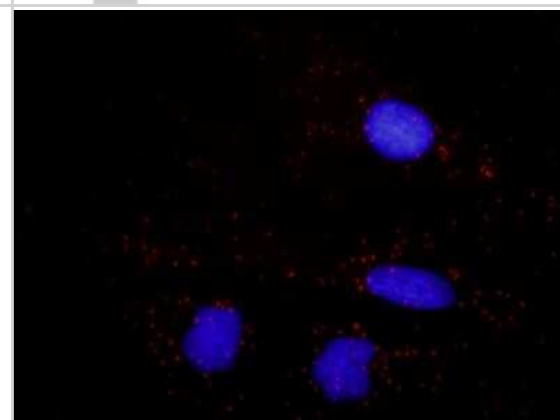
Western Blot: beta 2-Microglobulin Antibody (3F9-2C2) [H00000567-M01] - Analysis of B2M over-expressed 293 cell line, cotransfected with B2M Validated Chimera RNAi ( Cat # H00000567-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with B2M monoclonal antibody (M01), clone 3F9-2C2 (Cat # H00000567-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.



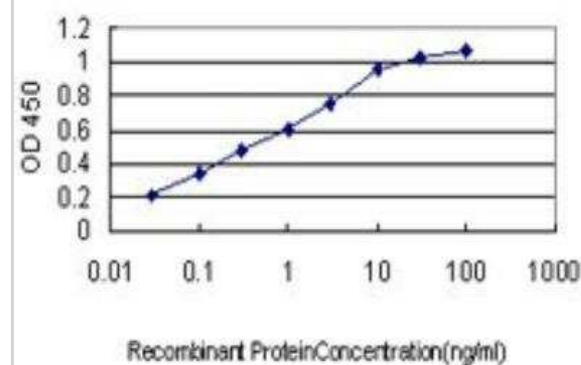
Western Blot: beta 2-Microglobulin Antibody (3F9-2C2) [H00000567-M01] - B2M monoclonal antibody (M01), clone 3F9-2C2 Analysis of B2M expression in U-2 OS.



Proximity Ligation Assay: beta 2-Microglobulin Antibody (3F9-2C2) [H00000567-M01] - Analysis of protein-protein interactions between CALR and B2M. HeLa cells were stained with anti-CALR rabbit purified polyclonal 1:1200 and anti-B2M mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



ELISA: beta 2-Microglobulin Antibody (3F9-2C2) [H00000567-M01] - Detection limit for recombinant GST tagged B2M is approximately 0.03ng/ml as a capture antibody.



## Publications

Dale D, Maria T, Chris K et al. Abundant CD8+ tumor infiltrating lymphocytes and beta-2-microglobulin are associated with better outcome and response to interleukin-2 therapy in advanced stage clear cell renal cell carcinoma. Ann Diagn Pathol. 2020-05-19 [PMID: 32454441]

Cebrian Carolina, Zucca Fabio A, Mauri Pierluigi et al. MHC-I expression renders catecholaminergic neurons susceptible to T-cell-mediated degeneration. Nat Commun. 2014-04-16 [PMID: 24736453] (IF/IHC)



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### **Products Related to H00000567-M01**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
NBP1-50840-0.01mg	Recombinant Human beta 2-Microglobulin His Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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