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B2M Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2771b

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	P61769
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	13715
Antigen Region	86-118

Additional Information

Gene ID	567
Other Names	Beta-2-microglobulin, Beta-2-microglobulin form pI 53, B2M
Target/Specificity	This B2M antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 86-118 amino acids from the C-terminal region of human B2M.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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.
Precautions	B2M Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	B2M (HGNC:914)
Function	Component of the class I major histocompatibility complex (MHC). Involved in the presentation of peptide antigens to the immune system. Exogenously applied M.tuberculosis EsxA or EsxA-EsxB (or EsxA expressed in host) binds B2M and decreases its export to the cell surface (total protein levels do not

	change), probably leading to defects in class I antigen presentation (PubMed:25356553).
Cellular Location	Secreted. Cell surface. Note=Detected in serum and urine (PubMed:1336137, PubMed:7554280). {ECO:0000269|PubMed:7554280, ECO:0000269|Ref.6}

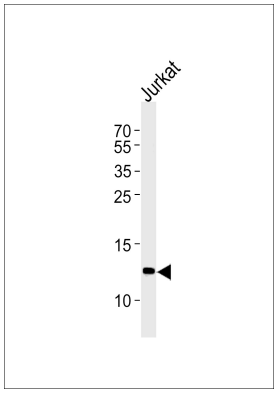
Background

Beta-2-microglobulin is a serum protein found in association with the major histocompatibility complex (MHC) class I heavy chain on the surface of nearly all nucleated cells.

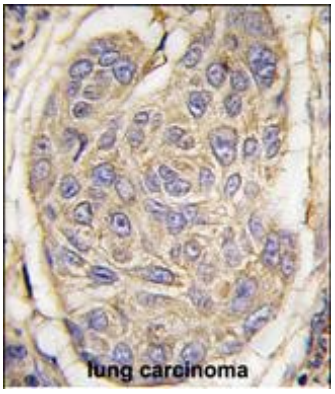
References

Sakata,M., J. Mol. Biol. 382 (5), 1242-1255 (2008)
Huang,W.C., Clin. Cancer Res. 14 (17), 5341-5347 (2008)
Gattoni-Celli,S., Cancer Res. 52 (5), 1201-1204 (1992)

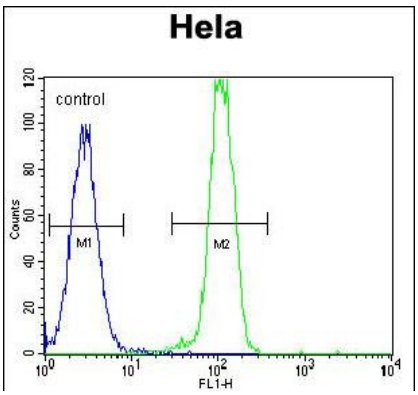
Images



B2M Antibody (C-term) (Cat. #AP2771b) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the B2M antibody detected the B2M protein (arrow).



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with B2M antibody (C-term) (Cat.#AP2771b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



B2M Antibody (C-term) (Cat. #AP2771b) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Overexpression of B2M and loss of ALK7 expression are associated with invasion, metastasis, and poor-prognosis of the pancreatic ductal adenocarcinoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.