For Research Use Only

Beta-2-Microglobulin Polyclonal antibody

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Catalog Number:13511-1-AP 15 Publications

Basic Information

Catalog Number:
13511-1-AP

Size:
150ul , Concentration: 750 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4433

GenBank Accession Number:
BC032589

GeneID (NCBI):
567

Full Name:
beta-2-microglobulin

Calculated MW:
119 aa, 14 kDa

Observed MW:
12-14 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:2000-1:8000
IF 1:375-1:1500

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, human heart tissue, human stomach tissue, mouse lung tissue, HepG2 cells, Raji cells, mouse spleen tissue, rat spleen tissue, HeLa cells, Jurkat cells, rat lung tissue

IP : A431 cells,

IHC : human tonsillitis tissue, mouse lung tissue, human liver cancer tissue, human prostate cancer tissue, human oesophagus cancer tissue

IF : A431 cells, NCCIT cells

Background Information

Beta-2-microglobulin (B2M) is a component of MHC class I molecules, which are present on the surface of nearly all nucleated cells. It can be found in body fluids under physiologic conditions as a result of shedding from cell surfaces or intracellular release. B2M has various biological functions, including antigen presentation. Investigations reveal that increased synthesis and release of B2M are present in several malignant diseases.

Notable Publications

Author	Pubmed ID	Journal	Application
Yuan Wang	32524001	Sci Adv	IF
Feng Tang	33960680	CNS Neurosci Ther	IF
Yu Zhao	34115389	Immunology	WB,IHC

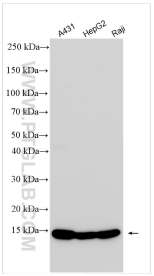
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

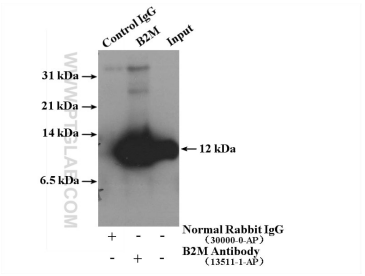
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

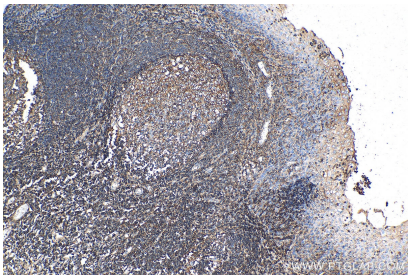
Selected Validation Data



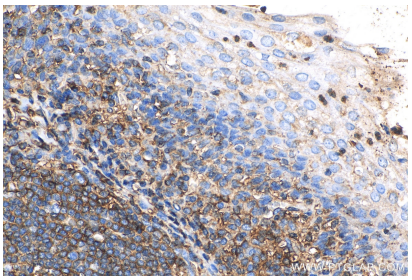
Various lysates were subjected to SDS PAGE followed by western blot with 13511-1-AP (Beta-2-Microglobulin antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



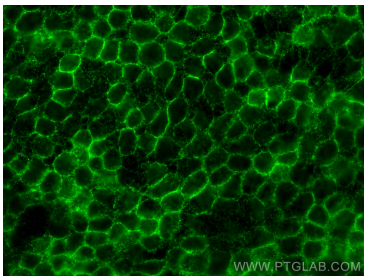
IP result of anti-Beta-2-microglobulin (IP:13511-1-AP, 4ug; Detection:13511-1-AP 1:600) with A431 cells lysate 2280 ug.



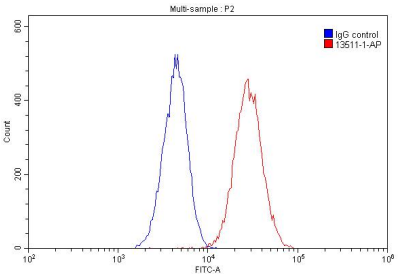
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 13511-1-AP (Beta-2-Microglobulin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 13511-1-AP (Beta-2-Microglobulin antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of A431 cells using Beta-2-Microglobulin antibody (13511-1-AP) at dilution of 1:750 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HeLa cells were stained with 0.20ug Beta-2-microglobulin antibody (13511-1-AP, red) and control antibody (blue). Fixed with 90% MeOH.