

# Beta-2-Microglobulin Polyclonal antibody

Catalog Number: 13511-1-AP

23 Publications

## Basic Information

### Catalog Number:

13511-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4433

### GenBank Accession Number:

BC032589

### GeneID (NCBI):

567

### ENSEMBL Gene ID:

ENSG00000166710

### UNIPROT ID:

P61769

### Full Name:

beta-2-microglobulin

### Calculated MW:

119 aa, 14 kDa

### Observed MW:

12-14 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:2000-1:8000

IF/ICC 1:375-1:1500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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, HeLa cells, HepG2 cells, Jurkat cells, mouse spleen tissue, rat lung tissue, rat spleen tissue, Raji cells

**IP**: A431 cells,

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

**IF/ICC**: 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

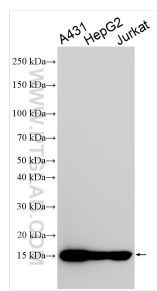
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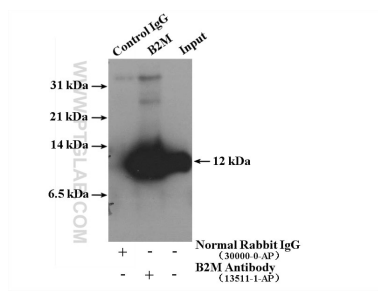
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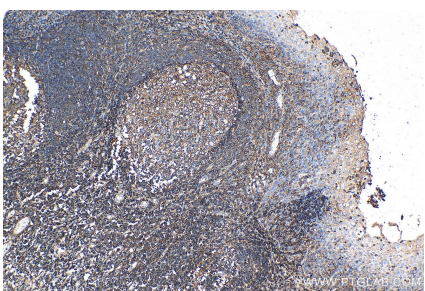
Selected Validation Data



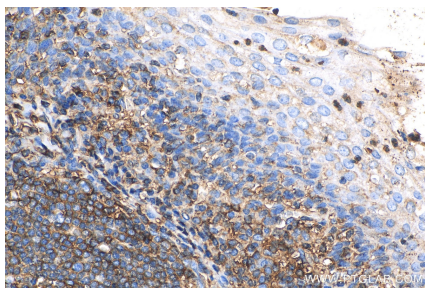
A431 cells were subjected to SDS PAGE followed by western blot with 13511-1-AP (Beta-2-Microglobulin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



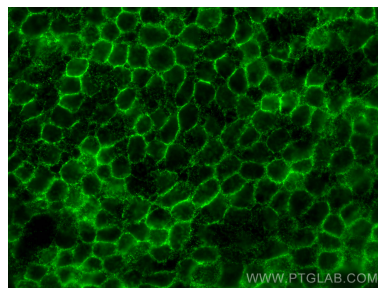
IP result of anti-Beta-2-Microglobulin (IP:13511-1-AP, 4ug; Detection:13511-1-AP 1:600) with A431 cells lysate 2280 ug.



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).