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[KD Validated] beta 2 Microglobulin Rabbit mAb

Catalog No.: A23430 Recombinant

Basic Information

Observed MW
12kDa

Calculated MW
13kDa

Category
Primary antibody

Applications
WB,IHC-P,IF/ICC,FC,ELISA

Cross-Reactivity
Human

CloneNo number
ARC60950

Background

This gene encodes a serum protein found in association with the major histocompatibility complex (MHC) class I heavy chain on the surface of nearly all nucleated cells. The protein has a predominantly beta-pleated sheet structure that can form amyloid fibrils in some pathological conditions. The encoded antimicrobial protein displays antibacterial activity in amniotic fluid. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia.

Recommended Dilutions

WB	1:1000 - 1:4000
IHC-P	1:1000 - 1:4000
IF/ICC	1:50 - 1:200
FC	1:500 - 1:1000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
567

Swiss Prot
P61769

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
B2M; IMD43; beta-2-microglobulin; [KD Validated] beta 2 Microglobulin

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

400-999-6126

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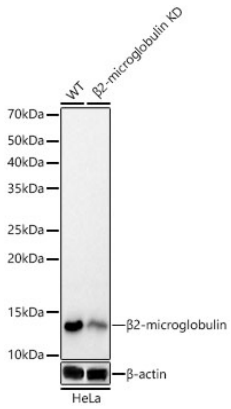
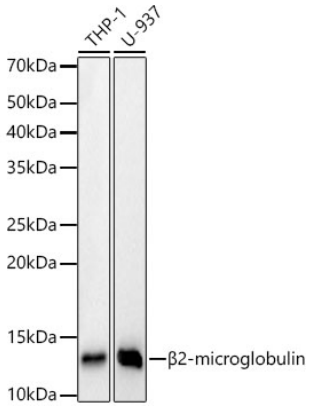
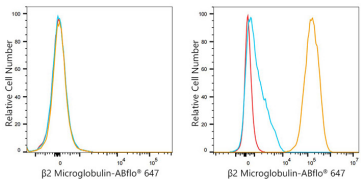
Validation Data



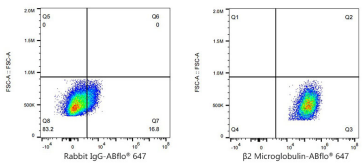
Western blot analysis of lysates from wild type(WT) and β2-microglobulin knockdown (KD) HeLa cells, using [KD Validated] beta 2 Microglobulin Rabbit mAb (A23430) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



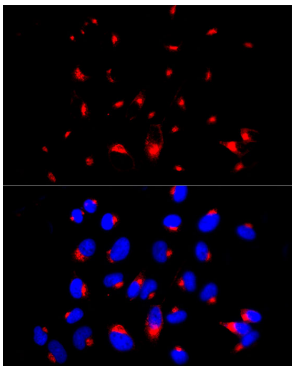
Western blot analysis of various lysates, using [KD Validated] beta 2 Microglobulin Rabbit mAb (A23430) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Flow cytometry:1X10^6 Daudi cells(negative control,left) and Hela cells (right) were surface-stained with [KD Validated] beta Microglobulin Rabbit mAb(A23430,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,2 µg/mL,blue line).Non-fluorescently stained cells was used as blank control (red line).

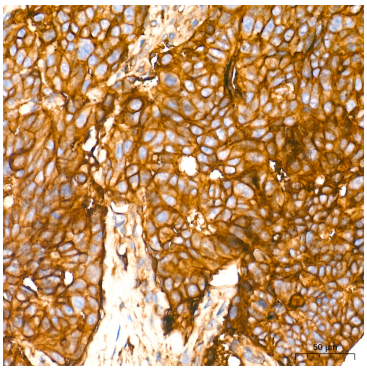


Flow cytometry:1X10^6 HeLa cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,2 µg/mL,left) or β2 Microglobulin Rabbit mAb(A23430,2 µg/mL,right).

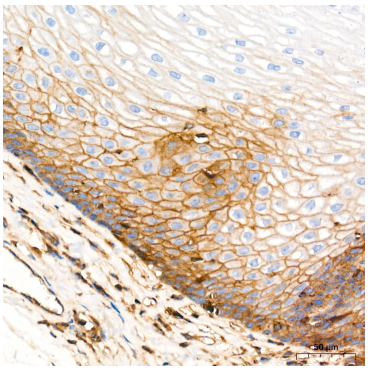


Immunofluorescence analysis of HeLa cells using [KD Validated] beta 2 Microglobulin Rabbit mAb (A23430) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

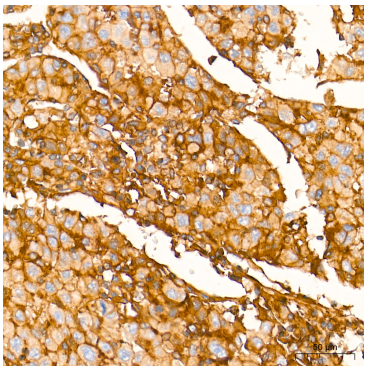
Validation Data



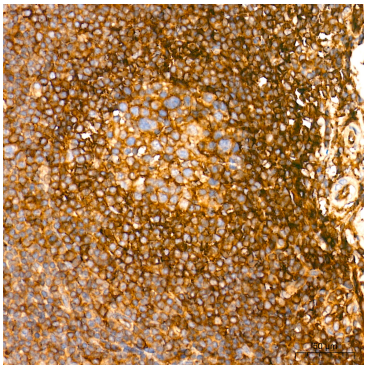
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KD Validated] beta 2 Microglobulin Rabbit mAb (A23430) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using [KD Validated] beta 2 Microglobulin Rabbit mAb (A23430) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using [KD Validated] beta 2 Microglobulin Rabbit mAb (A23430) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using [KD Validated] beta 2 Microglobulin Rabbit mAb (A23430) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.