# Mouse anti-Human b2-Microglobulin Monoclonal Antibody | anti-B2M antibody

b2-Microglobulin (B2M, Beta-2-microglobulin) (Biotin)

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA24866** | **Mouse** | **Human** | **ELISA, Immunofluorescence, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

b2-Microglobulin; Monoclonal Antibody; b2-Microglobulin (B2M; Beta-2-microglobulin) (Biotin); anti-B2M antibody

## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **Host** | Mouse |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2b,k |
| **Clone Number** | 3F9-2C2 |
| **Specificity** | Recognizes human B2M. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Applicable Applications for anti-B2M antibody** | ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| **Application Notes** | IF: 10ug/ml<br>Applications are based on unconjugated antibody. |
| **Immunogen** | Full length recombinant corresponding to aa1-119 from human B2M (AAH32589) with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVDLLKNGERIEKVEHSDLSFSKDWSFYLLYYTEFTPTEKDEYACRV |
| **Conjugate** | Biotin |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor<br>Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in as<br>recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |

## IMAGES

**WB (Western Blot)**
Western Blot analysis of B2M expression in transfected 293T cell line by B2M monoclonal antibody. Lane 1: B2M transfected lysate (13.7kD). Lane 2: Non-transfected lysate.

**WB (Western Blot)**
B2M monoclonal antibody, Western Blot analysis of B2M expression in U-2 OS.

**Application Data**
Proximity Ligation Analysis (PLA) of protein-protein interactions between CALR and B2M. HeLa cells were stained with CALR rabbit purified polyclonal 1:1200 and B2M mouse monoclonal antibody 1:50. Signals were detected by 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex.

**Application Data**
Detection limit for recombinant GST tagged B2M is ~0.03ng/ml as a capture antibody.

**IF (Immunofluorescence)**
Immunofluorescence of monoclonal antibody to B2M on HeLa cell. [antibody concentration 10ug/ml].

**IHC (Immunohistochemistry)**
Immunoperoxidase of monoclonal antibody to B2M on formalin-fixed paraffin-embedded human esophagus. [antibody concentration 3ug/ml].

## ADDITIONAL INFORMATION

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|---|---|
| **Product Categories/Family for anti-B2M antibody** | Antibodies; Serum Proteins |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 21619743 |
| **NCBI GeneID** | 567 |
| **Molecular Weight** | 13,715 Da |
| **NCBI Official Full Name** | Homo sapiens beta-2-microglobulin, mRNA |
| **NCBI Official Synonym Full Names** | beta-2-microglobulin |
| **NCBI Official Symbol** | B2M |
| **NCBI Official Synonym Symbols** | IMD43 |
| **NCBI Protein Information** | beta-2-microglobulin |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/b2-microglobulin-antibody-clone-3f9-2c2-immunofluorescence-immunohistochemistry-western-blot-elisa/24866