

Anti-BETA-2-MICROGLOBULIN (Human Urine) (RABBIT) Antibody Peroxidase Conjugated - 200-403-141

Code: 200-403-141

Size: 500 µg

Product Description: Anti-BETA-2-MICROGLOBULIN (Human Urine) (RABBIT) Antibody Peroxidase Conjugated - 200-403-141

Concentration: 5.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Lyophilized

Label	Peroxidase (Horseradish)
Host	Rabbit
Gene Name	B2M
Species Reactivity	human
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Storage Condition	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit anti-Beta-2-Microglobulin Antibody Peroxidase Conjugation, HRP conjugated Beta-2-Microglobulin Antibody, B2M antibody, Beta 2 microglobulin precursor antibody, Beta chain of mhc class 1 proteins antibody, Hdcma22p antibody
Application Note	Anti-beta-2-Microglobulin antibody is suitable for western blotting to detect a single band of the expected apparent molecular weight and for IF, IHC, and ELISA. Researchers should determine optimal titers for applications that are not stated below.
Background	Anti-beta-2-Microglobulin Antibody detects beta-2-Microglobulin. Beta-2-microglobulin is a component of the class I major histocompatibility complex (MHC), which are present on all nucleated cells (excludes red blood cells). It is involved in the presentation of peptide antigens to the immune system. Beta-2-microglobulin associates not only with the alpha chain of MHC class I molecules, but also with class I-like molecules such as CD1 and Qa. Defects in B2M are the cause of hypercatabolic hypoproteinemia. Anti-beta-2-Microglobulin Antibody is ideal for investigators involved in Cell Signaling, Immunology and Cell Biology research.
Purity And Specificity	Anti-beta-2-Microglobulin antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase and anti-Rabbit Serum, as well as purified and partially purified b2-Microglobulin (Human Urine). Cross reactivity against b2-Microglobulin from other sources is unknown.
Assay Dilutions	User Optimized
ELISA	1:2,000 - 1:10,000
Western Blot	1:500 - 1:2,000
Immunohistochemistry	1:200 - 1:1,000
IF Microscopy	1:200
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	Anti-Beta-2-Microglobulin Antibody was produced by repeated immunizations with beta-2-Microglobulin protein isolated from human urine.
General Reference	The human beta 2-microglobulin gene. Primary structure and definition of the transcriptional unit; Guessow D., Rein R., Ginjaar I., Hochstenbach F., Seemann G., Kottman A., Ploegh H.L.; J. Immunol. 139:3132-3138(1987)

Related Products

611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B552-0500	BLOTTO A PRE-MIXED - for a 1X SOLUTION of Immunoanalytical Grade 5% NON-FAT DRY MILK in TBS with TWEEN-20 - B552-0500
B553-0500	BLOTTO B PRE-MIXED - for a 1X SOLUTION of Immunoanalytical Grade 1% NON-FAT DRY MILK, 1% BSA in TBS with TWEEN-20 - B553-0500
MB-015	10% (w/v) Sodium Dodecyl Sulfate (SDS) - MB-015

Related Links

UniProtKB - P61769

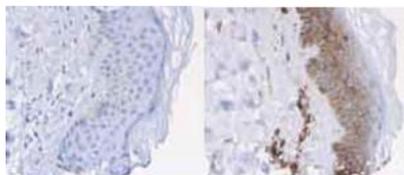
<http://www.uniprot.org/uniprot/P61769>

NCBI - P61769.1 <http://www.ncbi.nlm.nih.gov/protein/P61769.1>

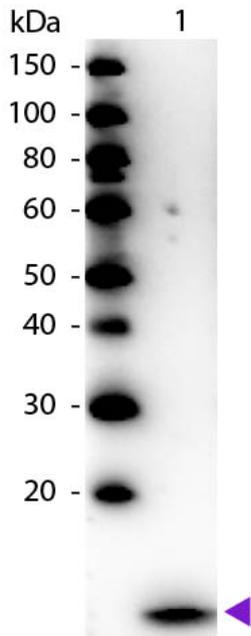
GeneID - 567

Images

- 1 Immunohistochemistry of Rabbit anti-Beta-2-Microglobulin Antibody. Tissue: normal human skin. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Left panel: isotype control, Right panel: β 2 microglobulin antibody at 1 ug/ml for 20 min at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: β 2 microglobulin is cell membrane (and to lesser amount cytoplasmic compartment). Staining: Beta-2-Microglobulin as brown with diaminobenzidine and with a hematoxylin purple counterstain.

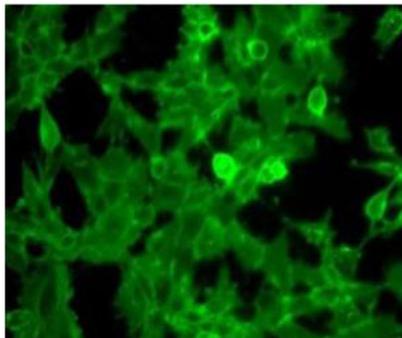


- 2 Western Blot of Peroxidase conjugated Rabbit Anti-Beta-2-Microglobulin primary antibody. Lane 1: Beta-2-Microglobulin. Lane 2: None. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: Peroxidase rabbit secondary antibody at 1:1,000 for 60 min at RT. Blocking: MB-070 for 30 min at RT. Predicted/Observed size: 12 kDa, 12 kDa for Beta-2-Microglobulin. Other band(s): None.



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Immunofluorescence Microscopy of Rabbit Anti-Beta-2-microglobulin antibody. Tissue: Human Embryonic Kidney cells (HEK 293 cells). Fixation: 2% paraformaldehyde for 15 minutes. Antigen retrieval: not required. Primary antibody: β -2 microglobulin antibody at 1:200 for overnight at 4°C. Secondary antibody: donkey anti-rabbit secondary antibody conjugated with Alexa Fluor 488 fluorochrome at 1:1,000 for 45 min at RT. Localization: β 2-microglobulin is mainly on the cell surface and occasionally cytoplasmic. Staining: Beta-2-microglobulin as green fluorescent signal.



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