

Anti-Beta2-Microglobulin [YTH470.5] Standard Size Ab00189-6.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This reformatted rat antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG1, Fc Silent™, Kappa

Clone Number: YTH470.5

Alternative Name(s) of Target: B2M; Beta 2-micro; B2BM; β2M; β 2-micro; β2βM; CDABP0092; HDCMA22P; YTH470; YTH-470

UniProt Accession Number of Target Protein: P61769

Published Application(s): activation, Blocking, Positive control, Sensitization, WB, FC, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated by fusion of the myeloma line Y3/Ag1.2.3 with spleen cells from a DA rat immunized with human cells.

Specificity: This antibody is specific for human β₂-Microglobulin.

Application Notes: YTH470.5 was used for IF, Activation (via complement mediated cell lysis), and WB as part of the testing performed in its original article (Bindon et al., 1988; PMID: 2973413). This antibody was also used as a positive control for blocking, as measured by FC, to analyze integrin expression on the surface of primary cultures of human airway smooth muscle cells (Freyer et al., 2001; PMID: 11713098). Furthermore, it was used as a primary monoclonal antibody in the immunocytochemistry analysis — IF, specifically — of human neuronal stem cells (Lee et al., 2005; PMID: 15607744).

Antibody First Published in: Bindon et al. Importance of antigen specificity for complement-mediated lysis by monoclonal antibodies Eur J Immunol. 1988 Oct;18(10):1507-14. doi: 10.1002/eji.1830181006
[PMID:2973413](#)

Note on publication: Describes the preparation of rat anti human beta2-microglobulin antibody and characterisation of the specificities by binding analysis, immunoprecipitation or Western blotting, furthermore specific functional tests such as complement-mediated lysis.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.