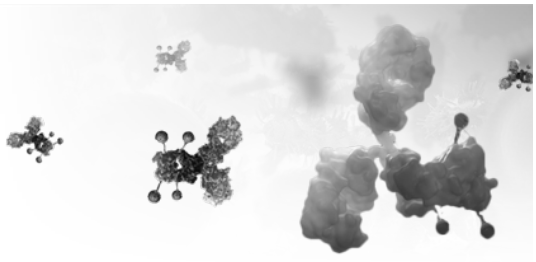

Mouse Anti-Human Beta-2 microglobulin monoclonal antibody, clone NN45 (CABT-ZB909)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	It reacts with Human Beta-2 microglobulin
Target	B2M
Immunogen	Recombinant Human Beta-2 microglobulin/B2M Protein
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	NN45
Purification	Protein A purified
Conjugate	Unconjugated
Applications	WB, ELISA, ELISA(det), IHC-P, FC, ICC/IF We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB546 - CABT-ZB909 This antibody will detect Beta-2 microglobulin in antibody pair set. [ABPR-ZB122]
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human Beta-2 microglobulin/B2M. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	Purified, Liquid

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Concentration	Lot specific
Size	50 µL, 100 µL, 200 µL, 1 mL
Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	B2M, also known as β2-Microglobulin or CDABP0092, is a component of MHC class I molecules found expression in all nucleated cells (excludes red blood cells). The major function of MHC class I moleculesis is to display fragments of proteins from within the cell to T-cells and cells containing foreign proteins will be attacked. B2M (β2-Microglobulin) is a low molecular weight protein. It was demonstrated that B2M (β2-Microglobulin) was localized in the membranes of nucleated cells and was found to be associated with HL-A antigens. B2M (β2-Microglobulin) is present in free form in various body fluids and as a subunit of histocompatibility antigens on cell surfaces lateral to the α3 chain. Unlike α3, β2 has no transmembrane region. Directly above β2 lies the α1 chain, which itself is lateral to the α2. In the absence of B2M (β2 microglobulin), very limited amounts of MHC class I (classical and non-classical) molecules can be detected on the surface. In the absence of MHC class I, CD8 T cells, a subset of T cells involved in the development of acquired immunity cannot develop. Low levels of B2M (β2 microglobulin) can indicate non-progression of HIV.
Keywords	B2M; beta-2-microglobulin; Beta-2-microglobulin; beta chain of MHC class I molecules

GENE INFORMATION

Synonyms	B2M; beta-2-microglobulin; Beta-2-microglobulin; beta chain of MHC class I molecules; beta-2-microglobin; β2-MG
Entrez Gene ID	567
UniProt ID	Q99879

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