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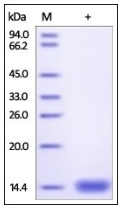
Beta 2 microglobulin Recombinant Protein

Cat. No.: 96-039



Beta 2 microglobulin Recombinant Protein

Specifications

SPECIES:	Cynomolgus monkey
SOURCE SPECIES:	HEK293 cells
SEQUENCE:	Ile 21 - Met 119
FUSION TAG:	His Tag
TESTED APPLICATIONS:	WB
APPLICATIONS:	This recombinant protein can be used for WB. For research use only.
PREDICTED MOLECULAR WEIGHT:	12.5 kDa

Properties

PURITY:	>95% as determined by SDS-PAGE.
PHYSICAL STATE:	Lyophilized
BUFFER:	PBS, pH7.4
STORAGE CONDITIONS:	Lyophilized Protein should be stored at -20˚C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20˚C or -70˚C. Avoid repeated freeze-thaw cycles.

Additional Info

OFFICIAL SYMBOL:	B2M
ALTERNATE NAMES:	B2M
ACCESSION NO.:	Q6V7J5
GENE ID:	712428

Background and References

BACKGROUND:	β2 microglobulin is also known as Beta-2-microglobulin (B2M), is a component of MHC class I molecules which belongs to the beta-2-microglobulin family. B2M is present on all nucleated cells (excludes red blood cells). B2M associates not only with the alpha chain of MHC class I molecules, but also with class I-like molecules such as CD1 and Qa. An additional function of B2M is association with the HFE protein, together regulating the expression of hepcidin in the liver which targets the iron transporter ferroportin on the cytoplasmic membrane of enterocytes and macrophages for degradation resulting in decreased iron uptake from food and iron release from recycled red blood cells respectively. Loss of this function causes iron excess and hemochromatosis. Defects in B2M are the cause of hypercatabolic hypoproteinemia (HYCATHYP).
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	2) Gorevic P.D., et al., 1986, Proc. Natl. Acad. Sci. U.S.A. 83:7908-7912.
	3) Argiles A., et al., 1992, Nephrol. Dial. Transplant. 7:1106-1110.
	4) Momoi T., et al., 1995, Clin. Chim. Acta 236:135-144.