



Catalog Number: 51124-M08H

General Information

Gene Name Synonym:

AI255832; IBP-2; Igfbp-2; mIGFBP-2

Protein Construction:

A DNA sequence encoding the mouse Igfbp2 (NP_032368.2) (Met1-Gln305) was expressed with a polyhistidine tag at the C-terminus.

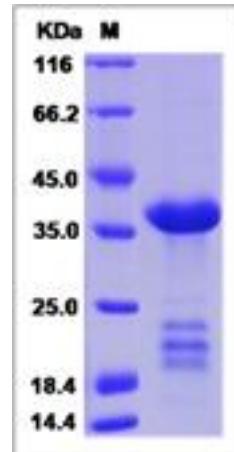
Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 70 % as determined by SDS-PAGE.

SDS-PAGE:



Protein Description

IGFBP-2, also known as IGFBP2, is a insulin-like growth factor-binding protein (IGFBP). IGFBPs prolong the half-life of the IGFs, control bioavailability, activity, and distribution of insulin-like growth factor (IGF) through high-affinity IGFBP/IGF complexes. Six high-affinity IGF-binding proteins (IGFBP-1 to -6) have been identified. The six IGFBPs are structurally related but encoded by distinct genes. IGFBPs have a high affinity for IGFs. Some members of the IGFBP family have been consistently shown to inhibit IGF actions by preventing them from gaining access to the IGF receptors, while others potentiate IGF actions by facilitating the ligand-receptor interaction. IGFBP-2 is overexpressed in many malignancies and is often correlated with an increasingly malignant status of the tumor, pointing to a potential involvement of IGFBP-2 in tumorigenesis. It contains 1 IGFBP N-terminal domain and 1 thyroglobulin type-1 domain. It inhibits IGF-mediated growth and developmental rates.

References

- 1.Han VK, et al. (1996) The expression of insulin-like growth factor (IGF) and IGF-binding protein (IGFBP) genes in the human placenta and membranes: evidence for IGF-IGFBP interactions at the feto-maternal interface. *J Clin Endocrinol Metab.* 81(7): 2680-93.
- 2.Binkert C, et al. (1989) Cloning, sequence analysis and expression of a cDNA encoding a novel insulin-like growth factor binding protein (IGFBP-2). *EMBO J.* 8(9):2497-502.
- 3.Wolf E, et al. (2000) Effects of IGFBP-2 overexpression in vitro and in vivo. *Pediatr Nephrol.* 14 (7):572-8.

Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.