Data Sheet (Cat.No.TMPY-02306)

TargetMol

MAB21L2 Protein, Human, Recombinant (His & ZZ)

General Information

Synonyms: mab-21-like 2 (C. elegans);MCOPS14

Protein Construction: A DNA sequence encoding the human MAB21L2 (NP_006430.1) (Met1-Leu359) was expressed with a N-terminal polyhistidine-tagged ZZ tag at the N-terminus. Predicted N terminal: His

Species: Human

Expression Host: E. coli

Accession: Q9Y586

Molecular Weight: 58.4 kDa (predicted); 55.6 kDa (reducing conditions)

QC Testing

Biological Activity: Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

Formulation: Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

MAB21L2 (Mab-21 Like 2) is a Protein Coding gene. It encodes a protein similar to C. elegans mab-21 cell fate-determining factor. The protein encoded by this gene is primarily nuclear, although some cytoplasmic localization has been observed. MAB21L2 belongs to the mab-21 family. It is required for several aspects of embryonic development including normal development of the eye. It is thought that this gene may also be involved in neural development. The identification of MAB21L2 as a novel factor involved in human coloboma and highlight the

power of genome editing manipulation in model organisms for analysis of the effects of whole-exome variation in humans. Diseases associated with MAB21L2 include Microphthalmia/Coloboma And Skeletal Dysplasia Syndrome and Microphthalmia.

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