

Human KLHL2 Protein (GST Tag)

Catalog Number: 14556-H09E



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Biological Solution Specialist

General Information

Gene Name Synonym:

ABP-KELCH; KLHL2; MAV; MAYVEN

Protein Construction:

A DNA sequence encoding the mature form of human KLHL2 (AAH36468.1) (Met1-Pro306) was fused with the GST tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human KLHL2 /GST chimera consists of 540 amino acids and has a predicted molecular mass of 62.2 kDa. It migrates as an approximately 63 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 10% glycerol, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

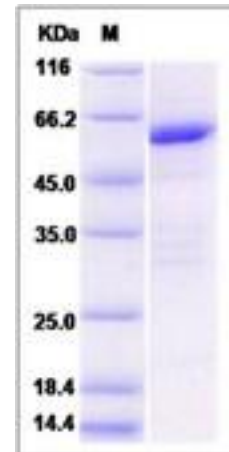
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

KLHL2 contains 1 BTB (POZ) domain and 6 Kelch repeats. It is predominantly expressed in brain. KLHL2 gene has been proposed to participate in intracellular protein transportation. KLHL2 is expected to have molecular functions such as transporter activity, actin binding and protein binding. KLHL2 localizes in various compartments such as actin cytoskeleton, cytoplasm, membrane and nucleus. It may also play a role in organizing the actin cytoskeleton of the brain cells.

References

1. Minx P, *et al.* (2005) Generation and annotation of the DNA sequences of human chromosomes 2 and 4. *Nature*. 434:724-31.
2. Ota T, *et al.* (2004) Complete sequencing and characterization of 21,243 full-length human cDNAs. *Nat Genet*. 36:40-5.
3. Jiang S, *et al.* (1999) Characterization of Mayven, a novel actin-binding protein predominantly expressed in brain. *Mol Biol Cell*. 10:2361-75.

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