Data Sheet (Cat.No.TMPY-03399)

TargetMol

KLHL2 Protein, Human, Recombinant (GST)

General Information

Synonyms:	kelch like family member 2;ABP-KELCH;MAYVEN;KLHL2;MAV
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. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	AAH36468.1
Molecular Weight:	62.2 kDa (predicted); 63 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:	> 85 % 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 50 mM Tris, 10% glycerol, pH 8.0.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

KLHL2 (Kelch Like Family Member 2) is a Protein Coding gene. 3 alternatively spliced human isoforms have been reported. KLHL2 contains 1 BTB (POZ) domain and 6 Kelch repeats. It is widely expressed in the brain, esophagus, and other tissues. 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. Diseases associated with KLHL2 include Mixed Malaria and Inclusion Body Myopathy With Early-Onset Paget Disease Of Bone With Or Without Frontotemporal Dementia 2.

Reference

Minx P,et al.(2005) Generation and annotation of the DNA sequences of human chromosomes 2 and 4. Nature. 434:724-31.

Ota T,et al.(2004) Complete sequencing and characterization of 21,243 full-length human cDNAs. Nat Genet. 36: 40-5.

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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