

Product Information

MemDX™ Membrane Protein Human HEPH (Hephaestin) for Antibody Discovery

Cat. No.: **MP0645J**

This product is for research use only and is not intended for diagnostic use.

This product is a 136.5 kDa Human HEPH membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

HEPH

Protein Length

Full-length

Protein Class

Druggable Genome, Transmembrane

Molecular Weight

136.5 kDa

TMD

1

Sequence

MESGHLLWALLFMQSLWPQLTDGATRVYYLGIRDVQWNYAPKGRNVITNQPLDSDIVASSFLKSDKNRIG
GTYYKKTIYKEYKDDSYTDEVAQPAWLGLGPVLQAEVGDVILHLKNFATRPYTIHPHGVFYEKDSEGL
YPDGSSGPLKADDSVPPGGSHIYNWTIPEGHAPTDADPACLTWIYHSHVDAPRDIATGLIGPLITCKRGA
LDGNSPPQRQDVHDFFLLFSVVDENLSWHLNENIATYCSDPASVDKEDETFQESNRMHAINGFVFGNLP
ELNMCAQKRVAWHLFGMGNEIDVHTAFFHGQMLTTRGHHTDVANIFPATFVTAEMVPWEPGTWLISCQVN
SHFRDGMQALYKVKSCSMAPPVDLLTGKVRQYFIEAHEIQWDYGPMGHGSGTGKNLREPGSISDKFFQKS
SSRIGGTYWKVRYEAFQDETFQEKMHLEEDRHGLGPVIRAEVGDITQVVFYNRASQPFMSQPHGVFYE
KDYEGTVYNDGSSYPGLVAKPFKVTYRWTVPFHAGPTAQDPACLTWMYFSAADPIRDTNSGLVGPLLC
RAGALGADGKQKGVDEKFFLLFTVLNENKSWYSNANQAAAMLDLFRLLSEDIEGFQDSNRMHAINGFLFSN
LPRLDCKGDTVAWHLLGLGTETDVHGVFMFGNTVQLQGMKGAAMLFPHTFVMAIMQPDNLGTFEIYCQ
AGSHREAGMRAIYNVSQCPGHQATPRQRYQAARIYYIMAEVEWDYCPDRSWEREWHNQSEKDSYGYIFL
SNKDGLLSRYKKAVFREYTDGTFRIPRPTGPEEHLGILGPLIKGEVGDILTUVFKNNASRPYSVHAHG
VLESTTVWPLAAEPGEVVITYQWNIPERSGPGPNDSACVSWIYYSAVDPIKDMYSGLVGPLAICQKGILEP
HGGRSMDREFALLFLIFDENKSWYLEENVATHGSQDPGSINLQDETFLESNKMHAINGKLYANLRGLTM
YQGERVAWYMLAMGQDVLHTIHFAESFLYRNGENYRADVDLFPGTFEVEMVASNPGTWLMHCHVTD
HVVHAGMETLFTVFSRTEHLSPLTVITKETEKAVPPRDIEEGNVKMLGMQIPIKNVEMLASVLVAISVTL
LVVLALGGVVWYQHRQRKLRNRRSILDDSFKLLSFKQ

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

HEPH

Full Name

Hephaestin

Introduction

This gene encodes a member of the multicopper oxidase protein family. The encoded protein is involved in the transport of dietary iron from epithelial cells of the intestinal lumen into the circulatory system, and may be involved in copper transport and homeostasis. In mouse, defects in this gene can lead to severe microcytic anemia. Alternative splicing results in multiple transcript variants.

Alternative Names

CPL

Gene ID

[9843](#)

UniProt ID

[Q9BQS7](#)