



## HEPH peptide (DAG-P0601)

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

### PRODUCT INFORMATION

<b>Antigen Description</b>	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. [provided by RefSeq, Aug 2013]
<b>Specificity</b>	Detected in breast, colon, bone trabecular cells and fibroblasts.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the multicopper oxidase family. Contains 6 plastocyanin-like domains.
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">HEPH hephaestin [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	HEPH
<b>Synonyms</b>	HEPH; hephaestin; CPL;
<b>Entrez Gene ID</b>	<a href="#">9843</a>
<b>mRNA Refseq</b>	<a href="#">NM_001130860.3</a>
<b>Protein Refseq</b>	<a href="#">NP_001124332.1</a>

<b>UniProt ID</b>	Q9BQS7
<b>Chromosome Location</b>	Xq11-q12
<b>Pathway</b>	Iron uptake and transport, organism-specific biosystem; Metal ion SLC transporters, organism-specific biosystem; Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Transport of glucose and other sugars, bile salts and organic acids, metal ions and amine compounds, organism-specific biosystem;
<b>Function</b>	copper ion binding; ferrous iron binding; ferroxidase activity;