



## Human HMOX2 peptide (DAG-P0618)

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

### PRODUCT INFORMATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Antigen Description</b>   | Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. Several alternatively spliced transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq, Oct 2013] |
| <b>Purity</b>                | 70 - 90% by HPLC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Conjugate</b>             | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sequence Similarities</b> | Belongs to the heme oxygenase family. Contains 2 HRM (heme regulatory motif) repeats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Format</b>                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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

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|------------------------|-----------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">HMOX2 heme oxygenase (decycling) 2 [ Homo sapiens (human) ]</a> |
| <b>Official Symbol</b> | HMOX2                                                                       |
| <b>Synonyms</b>        | HMOX2; heme oxygenase (decycling) 2; HO-2; heme oxygenase 2;                |
| <b>Entrez Gene ID</b>  | <a href="#">3163</a>                                                        |

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| <b>mRNA Refseq</b>         | <a href="#">NM_001127204.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | <a href="#">NP_001120676.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | P30519                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Chromosome Location</b> | 16p13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | Heme degradation, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of porphyrins, organism-specific biosystem; Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem; Porphyrin and chlorophyll metabolism, organism-specific biosystem; Porphyrin and chlorophyll metabolism, conserved biosystem; Transmembrane transport of small molecules, organism-specific biosystem; heme degrada |
| <b>Function</b>            | heme oxygenase (decyclizing) activity; metal ion binding; protein binding;                                                                                                                                                                                                                                                                                                                                                                                                                                           |