



Human PON2 peptide (DAG-P1840)

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

PRODUCT INFORMATION

| | |
|------------------------------|--|
| Antigen Description | This gene encodes a member of the paraoxonase gene family, which includes three known members located adjacent to each other on the long arm of chromosome 7. The encoded protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress. Hydrolytic activity against acylhomoserine lactones, important bacterial quorum-sensing mediators, suggests the encoded protein may also play a role in defense responses to pathogenic bacteria. Mutations in this gene may be associated with vascular disease and a number of quantitative phenotypes related to diabetes. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008] |
| Specificity | Widely expressed with highest expression in liver, lung, placenta, testis and heart. |
| Conjugate | Unconjugated |
| Sequence Similarities | Belongs to the paraoxonase family. |
| Format | Liquid |
| Preservative | None |
| Storage | 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

| | |
|------------------------|--|
| Gene Name | PON2 paraoxonase 2 [Homo sapiens (human)] |
| Official Symbol | PON2 |
| Synonyms | PON2; paraoxonase 2; serum paraoxonase/arylesterase 2; PON 2; A-esterase 2; arylesterase 2; paraoxonase nirs; aromatic esterase 2; serum arylalkylphosphatase 2; |

| | |
|----------------------------|--|
| Entrez Gene ID | 5445 |
| mRNA Refseq | NM_000305.2 |
| Protein Refseq | NP_000296.2 |
| UniProt ID | Q15165 |
| Chromosome Location | 7q21.3 |
| Pathway | Phase I, non P450, organism-specific biosystem; |
| Function | arylesterase activity; identical protein binding; metal ion binding; |