# Human CDH13 peptide (DAG-P1664)

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

## PRODUCT INFORMATION

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| **Antigen Description** | This gene encodes a member of the cadherin superfamily. The encoded protein is localized to the surface of the cell membrane and is anchored by a GPI moiety, rather than by a transmembrane domain. The protein lacks the cytoplasmic domain characteristic of other cadherins, and so is not thought to be a cell-cell adhesion glycoprotein. This protein acts as a negative regulator of axon growth during neural differentiation. It also protects vascular endothelial cells from apoptosis due to oxidative stress, and is associated with resistance to atherosclerosis. The gene is hypermethylated in many types of cancer. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2011] |
| **Specificity** | Highly expressed in heart. In the CNS, expressed in cerebral cortex, medulla, hippocampus, amygdala, thalamus and substantia nigra. No expression detected in cerebellum or spinal cord. |
| **Conjugate** | Unconjugated |
| **Sequence Similarities** | Contains 5 cadherin domains. |
| **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

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| **Gene Name** | CDH13 cadherin 13 [ Homo sapiens (human) ] |
| **Official Symbol** | CDH13 |
| **Synonyms** | CDH13; cadherin 13; CDHH; P105; cadherin-13; T-cad; T-cadherin; heart cadherin; H-cadherin |

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| | (heart); cadherin 13, H-cadherin (heart); |
| **Entrez Gene ID** | 1012 |
| **mRNA Refseq** | NM_001220488.1 |
| **Protein Refseq** | NP_001207417.1 |
| **UniProt ID** | B7Z9B1 |
| **Chromosome Location** | 16q23.3 |
| **Pathway** | Adherens junctions interactions, organism-specific biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem; |
| **Function** | adiponectin binding; cadherin binding; calcium ion binding; lipoprotein particle binding; low-density lipoprotein particle binding; protein homodimerization activity; |

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