

# Recombinant Human PCDHB2 cell lysate

**Cat. No.** PCDHB2-1299HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

**Species** Human

### Description

This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3 exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections.

**Size** 100 ul

### Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Applications** Western Blot;

## GENE INFORMATION

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|                     |                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------|
| Gene Name           | PCDHB2 protocadherin beta 2 [ Homo sapiens ]                                                        |
| Official Symbol     | PCDHB2                                                                                              |
| Synonyms            | PCDHB2; protocadherin beta 2; protocadherin beta-2; PCDH BETA2; PCDH-beta-2; PCDH-BETA2; MGC111392; |
| Gene ID             | 56133                                                                                               |
| mRNA Refseq         | NM_018936                                                                                           |
| Protein Refseq      | NP_061759                                                                                           |
| MIM                 | 606328                                                                                              |
| UniProt ID          | Q9Y5E7                                                                                              |
| Chromosome Location | 5q31                                                                                                |
| Function            | calcium ion binding;                                                                                |

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