

# Anti-PACE4 Picoband Antibody

Catalog # ABO12455

## Product Information

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| <b>Application</b>       | WB                                                                                                                               |
| <b>Primary Accession</b> | <a href="#">P29122</a>                                                                                                           |
| <b>Host</b>              | Rabbit                                                                                                                           |
| <b>Reactivity</b>        | Human, Rat                                                                                                                       |
| <b>Clonality</b>         | Polyclonal                                                                                                                       |
| <b>Format</b>            | Lyophilized                                                                                                                      |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Proprotein convertase subtilisin/kexin type 6 (PCSK6) detection. Tested with WB in Human;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                             |

## Additional Information

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| <b>Gene ID</b>                  | 5046                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Other Names</b>              | Proprotein convertase subtilisin/kexin type 6, 3.4.21.-, Paired basic amino acid cleaving enzyme 4, Subtilisin-like proprotein convertase 4, SPC4, Subtilisin/kexin-like protease PACE4, PCSK6, PACE4                                                                                                                                                                                                                                                                                                                                                    |
| <b>Calculated MW</b>            | 106420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Subcellular Localization</b> | Isoform PACE4A-I: Secreted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tissue Specificity</b>       | Each PACE4 isoform exhibits a unique restricted distribution. Isoform PACE4A-I is expressed in heart, brain, placenta, lung, skeletal muscle, kidney, pancreas, but at comparatively higher levels in the liver. Isoform PACE4A-II is at least expressed in placenta. Isoform PACE4B was only found in the embryonic kidney cell line from which it was isolated. Isoform PACE4C and isoform PACE4D are expressed in placenta. Isoform PACE4E-I is expressed in cerebellum, placenta and pituitary. Isoform PACE4E-II is at least present in cerebellum. |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Name</b>             | Proprotein convertase subtilisin/kexin type 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human PACE4 (614-651aa RNPEKQGKLKEWSLILYGTAEHPTYHTSAHQSRSRMLE), different from the related rat sequence by two amino acids.                                                                                                                                                                                                                                                                                                                                                         |

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| <b>Purification</b>     | Immunogen affinity purified.                                                                                                                                                        |
| <b>Cross Reactivity</b> | No cross reactivity with other proteins.                                                                                                                                            |
| <b>Storage</b>          | At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing. |

## Protein Information

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| <b>Name</b>              | PCSK6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>          | PACE4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>          | Serine endoprotease that processes various proproteins by cleavage at paired basic amino acids, recognizing the RXXX[KR]R consensus motif. Likely functions in the constitutive secretory pathway, with unique restricted distribution in both neuroendocrine and non-neuroendocrine tissues.                                                                                                                                                                                                                                                           |
| <b>Cellular Location</b> | [Isoform PACE4A-I]: Secreted. [Isoform PACE4C]: Endoplasmic reticulum. Note=Not secreted, remains probably in zymogen form in endoplasmic reticulum [Isoform PACE4E-I]: Endomembrane system; Peripheral membrane protein. Note=Retained intracellularly probably through a hydrophobic cluster in their C-terminus [Isoform PACE4B]: Secreted.                                                                                                                                                                                                          |
| <b>Tissue Location</b>   | Each PACE4 isoform exhibits a unique restricted distribution. Isoform PACE4A-I is expressed in heart, brain, placenta, lung, skeletal muscle, kidney, pancreas, but at comparatively higher levels in the liver. Isoform PACE4A-II is at least expressed in placenta. Isoform PACE4B was only found in the embryonic kidney cell line from which it was isolated. Isoform PACE4C and isoform PACE4D are expressed in placenta. Isoform PACE4E-I is expressed in cerebellum, placenta and pituitary. Isoform PACE4E-II is at least present in cerebellum |

## Background

Proprotein convertase subtilisin/kexin type 6 is an enzyme that in humans is encoded by the PCSK6 gene. This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an initial autocatalytic processing event in the ER to generate a heterodimer which exits the ER and sorts to the trans-Golgi network where a second autocatalytic event takes place and the catalytic activity is acquired. The encoded protease is constitutively secreted into the extracellular matrix and expressed in many tissues, including neuroendocrine, liver, gut, and brain. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. Some of its substrates include transforming growth factor beta related proteins, proalbumin, and von Willebrand factor. This gene is thought to play a role in tumor progression and left-right patterning. Alternatively spliced transcript variants encoding different isoforms have been identified.

## Images

Anti- PACE4 Picoband antibody, ABO12455, Western blottingAll lanes: Anti PACE4 (ABO12455) at 0.5ug/mLane 1: Rat Brain Tissue Lysate at 50ugLane 2: 293T Whole Cell Lysate at 40ugPredicted bind size: 80KD, 45/80/100KDObserved bind size: 80KD, 45/80/100KD



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