

DESCRIPTION

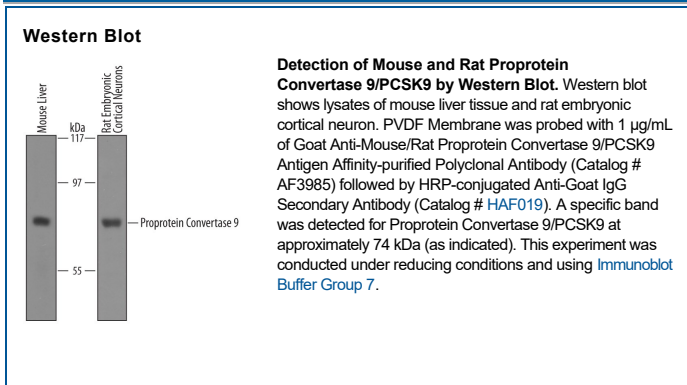
Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat Proprotein Convertase 9/PCSK9 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Proprotein Convertase 9 Ser156-Gln694 Accession # Q80W65
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PC9 (Proprotein convertase subtilisin type 9; also PCSK9 and NARC-1) is a 70-74 kDa, secreted glycoprotein member of the proteinase K subfamily of subtilases. PC9 functions as a protease that cleaves proproteins at non-basic residues. It also binds to, and promotes, the degradation of LDLR, VLDLR and ApoER2. The mouse PC9 precursor is 694 amino acid (aa) in length, and contains a signal sequence, a 14 kDa, 121 aa prodomain (aa 35-155), and a 56-58 kDa, 539 aa mature region (aa 156-694). The 58 kDa mature region arises from autocatalysis in the ER, and contains a subtilisin-like catalytic domain (aa 166-432), a modified P-domain (aa 433-529) and a C-terminal Cys-rich region (aa 530-694). The prosegment and mature regions remain noncovalently associated. There is one additional PC9 isoform that shows an alternative start site 13 aa upstream of the standard site coupled to a deletion of aa 18-20. Over aa 156-694, mouse PC9 shares 93% and 79% aa identity with rat and human PC9, respectively.