

## Anti-Proprotein convertase PC4/PCSK4 Antibody Picoband®

Catalog Number: PA2086

### About Pcsk4

PCSK4 (Proprotein Convertase, Subtilisin/Kexin-Type, 4), is an enzyme that in humans is encoded by the PCSK4 gene. The gene for PC4 (Pcsk4 locus) was mapped to mouse chromosome 10, close to the adipsin locus and near the gene encoding anti-mullerian hormone. Qiu et al. (2005) found that aberrant processing of pro-IGF2 by PC4 may be a cause of IUGR. PC4 cleaved pro-IGF2 to generate the intermediate processed form, IGF2 (1-102). Mature IGF2 (1-67), likely resulting from further processing by carboxypeptidases, is capable of activating invasive trophoblast cells through AKT phosphorylation. Inhibition of PC4 by a PC4-specific inhibitor blocked pro-IGF2 processing and reduced trophoblast cell migration.

### Overview

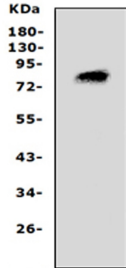
Product Name	Anti-Proprotein convertase PC4/PCSK4 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Proprotein convertase PC4/PCSK4 Antibody catalog # PA2086. Tested in WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P29121

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse Proprotein convertase PC4, different from the related rat sequence by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins

Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Rat, Mouse

## Anti-Protein convertase PC4/PCSK4 Antibody Picoband® (PA2086) Images



Western blot analysis of PCSK4 using anti-PCSK4 antibody (PA2086). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PCSK4 antigen affinity purified polyclonal antibody (Catalog # PA2086) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PCSK4 at approximately 83KD. The expected band size for PCSK4 is at 83KD.

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