

**PCSK4 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP56024**

**Specification**

**PCSK4 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q6UW60</a>
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PCSK4
Epitope Specificity	221-320/755
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass membrane protein (Potential).
SIMILARITY	Belongs to the peptidase S8 family. Furin subfamily. Contains 1 FU (furin-like) repeat.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

PCSK4 is a member of the subtilisin-like proprotein convertase family. These enzymes process latent precursor proteins into their biologically active products. The encoded protein plays a critical role in reproduction and processes multiple prohormones including pro-pituitary adenylate cyclase-activating protein (proPACAP) and pro-insulin-like growth factor II.

**PCSK4 Polyclonal Antibody - Additional Information**

**Gene ID** 54760

**Other Names**

Proprotein convertase subtilisin/kexin type 4, 3.4.21.-, Proprotein convertase 4, PC4, PCSK4  
{ECO:0000312|EMBL:AAH36354.1}

**Target/Specificity**

Placenta.

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class =

=<span class="dilution\_IHC-F">IHC-F~N/A</span><br \><span class="dilution\_IF">IF~1:50~200</span><br \><span class="dilution\_ICC">ICC~N/A</span><br \><span class="dilution\_E">E~N/A</span>

### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## PCSK4 Polyclonal Antibody - Protein Information

**Name** PCSK4 {ECO:0000312|EMBL:AAH36354.1}

### Function

Proprotein convertase involved in the processing of hormone and other protein precursors at sites comprised of pairs of basic amino acid residues (By similarity). In males, important for ADAM2 processing as well as other acrosomal proteins with roles in fertilization and critical for normal fertilization events such as sperm capacitation, acrosome reaction and binding of sperm to zona pellucida (By similarity). Also plays a role in female fertility, involved in the regulation of trophoblast migration and placental development, may be through the proteolytical processing and activation of proteins such as IGF2 (PubMed:<a href="http://www.uniprot.org/citations/16040806" target="\_blank">16040806</a>). May also participate in folliculogenesis in the ovaries (By similarity).

### Cellular Location

Membrane; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, acrosome membrane {ECO:0000250|UniProtKB:P29121}

### Tissue Location

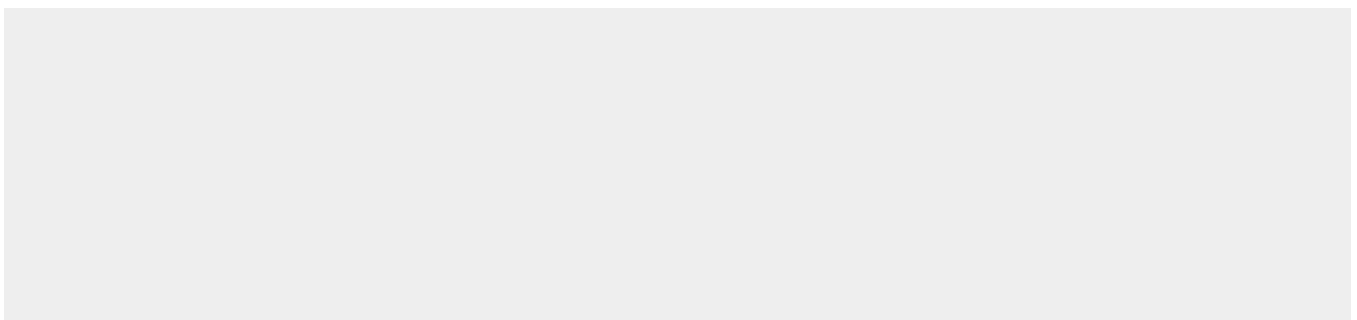
Placenta..

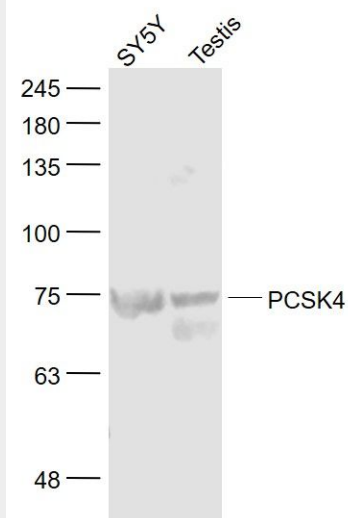
## PCSK4 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## PCSK4 Polyclonal Antibody - Images





Sample:

SY5Y(Human) Cell Lysate at 30 ug

Testis (Mouse) Lysate at 40 ug

Primary: Anti- PCSK4 (bs-15501R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 70 kD

Observed band size: 70 kD