



[Go to Product page](#)

Datasheet for ABIN2776494

anti-Zona Pellucida Glycoprotein 3 antibody (C-Term)

1 Image

2 Publications

Overview

Quantity:	100 µL
Target:	Zona Pellucida Glycoprotein 3 (ZP3)
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Cow, Horse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Zona Pellucida Glycoprotein 3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human ZP3
Sequence:	NKGDCGTPSH SRRQPHVMSQ WSRASRNRR HVTEEADTV GATDLPGQEW
Predicted Reactivity:	Cow: 100%, Horse: 100%, Human: 100%, Rabbit: 100%, Rat: 90%
Characteristics:	This is a rabbit polyclonal antibody against ZP3. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	Zona Pellucida Glycoprotein 3 (ZP3)
Alternative Name:	ZP3 (ZP3 Products)

Target Details

Background: The zona pellucida is an extracellular matrix that surrounds the oocyte and early embryo. It is composed primarily of three or four glycoproteins with various functions during fertilization and preimplantation development. The protein encoded by this gene is a structural component of the zona pellucida and functions in primary binding and induction of the sperm acrosome reaction. The nascent protein contains a N-terminal signal peptide sequence, a conserved ZP domain, a C-terminal consensus furin cleavage site, and a transmembrane domain. It is hypothesized that furin cleavage results in release of the mature protein from the plasma membrane for subsequent incorporation into the zona pellucida matrix. However, the requirement for furin cleavage in this process remains controversial based on mouse studies. A variation in the last exon of this gene has previously served as the basis for an additional ZP3 locus, however, sequence and literature review reveals that there is only one full-length ZP3 locus in the human genome. Another locus encoding a bipartite transcript designated POMZP3 contains a duplication of the last four exons of ZP3, including the above described variation, and maps closely to this gene

Alias Symbols: ZPC, ZP3A, ZP3B, Zp-3

Protein Interaction Partner: HECW2, OR2L13, SPACA3, MICALL1, MRPS16, PCDH17, UBAP2L, UBC, ENGASE, ACR, FURIN,

Protein Size: 424

Molecular Weight: 47 kDa

Gene ID: 7784

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 424 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Takeshita, Ichikawa, Nitta, Goyama, Asai, Ogawa, Chiba, Kurokawa: "AML1-Evi-1 specifically transforms hematopoietic stem cells through fusion of the entire Evi-1 sequence to AML1." in: Leukemia , Vol. 22, Issue 6, pp. 1241-9, (2008) (PubMed).
-------------------	---

Images



Western Blotting

Image 1. WB Suggested Anti-ZP3 Antibody Titration: 0.6ug/ml ELISA Titer: 1:62500 Positive Control: HepG2 cell lysate