

Datasheet for ABIN2782230 **anti-ZP2 antibody (C-Term)**



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1 Image

Overview

Quantity:	100 µL
Target:	ZP2
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Horse, Rabbit, Guinea Pig, Cow, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ZP2 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 ZP2
Sequence:	PDSFPQWNVV VDGCAFDLDN YQTTFHPVGS SVTHPDHYQR FDMKAFQFVS
Predicted Reactivity:	Cow: 79%, Dog: 86%, Guinea Pig: 86%, Horse: 79%, Human: 100%, Rabbit: 93%, Rat: 86%
Characteristics:	This is a rabbit polyclonal antibody against ZP2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	ZP2
Alternative Name:	ZP2 (ZP2 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. ZP2 is a structural component of the zona pellucida and functions in secondary binding and penetration of acrosome-reacted spermatozoa. The nascent protein contains a N-terminal signal peptide sequence, a conserved ZP domain, a consensus furin cleavage site, and a C-terminal 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. 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 secondary binding and penetration of acrosome-reacted spermatozoa. The nascent protein contains a N-terminal signal peptide sequence, a conserved ZP domain, a consensus furin cleavage site, and a C-terminal 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.

Alias Symbols: ZPA, Zp-2

Protein Interaction Partner: ZPBP, ACR,

Protein Size: 745

Molecular Weight: 68 kDa

Gene ID: 7783

NCBI Accession: [NM_003460](#), [NP_003451](#)

UniProt: [Q05996](#)

Application Details

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

Comment: Antigen size: 745 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

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

Images



Western Blotting

Image 1. WB Suggested Anti-ZP2 Antibody Titration:
2.5ug/ml Positive Control: HepG2 cell lysate