

Datasheet for ABIN656652
anti-ZP4 antibody (C-Term)



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3 Images

1 Publication

Overview

Quantity:	400 µL
Target:	ZP4
Binding Specificity:	AA 445-474, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ZP4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ZP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 445-474 amino acids from the C-terminal region of human ZP4.
Clone:	RB32332
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ZP4
Alternative Name:	ZP4 (ZP4 Products)
Background:	The zona pellucida is an extracellular matrix that surrounds the oocyte and early embryo. It is

Target Details

composed primarily of three or four glycoproteins with various functions during fertilization and preimplantation development. 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. Previously, this gene has been referred to as ZP1 or ZPB and thought to have similar functions as mouse Zp1. However, a human gene with higher similarity and chromosomal synteny to mouse Zp1 has been assigned the symbol ZP1 and this gene has been assigned the symbol ZP4.

Molecular Weight: 59400

Gene ID: 57829

NCBI Accession: [NP_067009](#)

UniProt: [Q12836](#)

Application Details

Application Notes: WB: 1:1000. WB: 1:2000. IHC-P: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

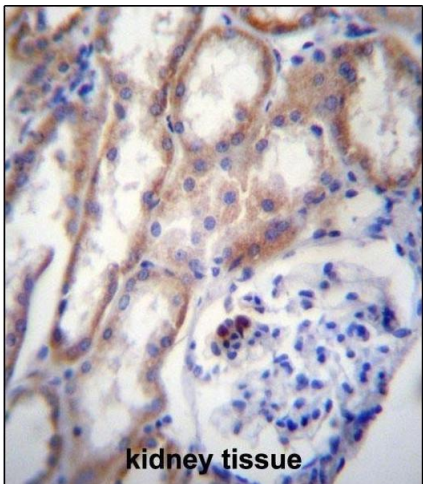
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: ZP4 Antibody (C-term) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, place the at -20 °C.

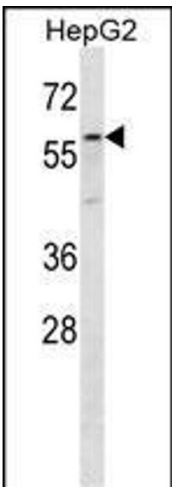
Expiry Date: 6 months

Product cited in: Mask, Schoenecker, Kane, Ransom, Bruemmer: "Serum antibody immunoreactivity to equine zona protein after SpayVac vaccination." in: **Theriogenology**, Vol. 84, Issue 2, pp. 261-7, (2015) ([PubMed](#)).



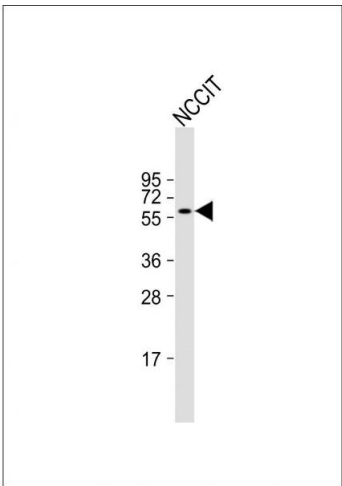
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. ZP4 Antibdy (C-term) (ABIN656652 and ABIN2845893) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ZP4 Antibdy (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. ZP4 Antibody (C-term) (ABIN656652 and ABIN2845893) western blot analysis in HepG2 cell line lysates (35 µg/lane).This demonstrates the ZP4 antibody detected the ZP4 protein (arrow).



Western Blotting

Image 3. Anti-ZP4 Antibody (C-term) at 1:2000 dilution + NCCIT whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 59 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.