

Anti-ZP3 antibody ab70384

[1 References](#) [1 Image](#)

Overview

Product name	Anti-ZP3 antibody
Description	Rabbit polyclonal to ZP3
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human ZP3 aa 400 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab87447)
Positive control	This antibody gave a positive signal in JEG-3 Whole Cell Lysate
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab70384 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 47 kDa (predicted molecular weight: 47 kDa).

Target

Function

The mammalian zona pellucida, which mediates species-specific sperm binding, induction of the acrosome reaction and prevents post-fertilization polyspermy, is composed of three to four glycoproteins, ZP1, ZP2, ZP3, and ZP4. ZP3 is essential for sperm binding and zona matrix formation.

Tissue specificity

Oocytes.

Sequence similarities

Belongs to the ZP domain family. ZPC subfamily.
Contains 1 ZP domain.

Domain

The ZP domain is involved in the polymerization of the ZP proteins to form the zona pellucida.

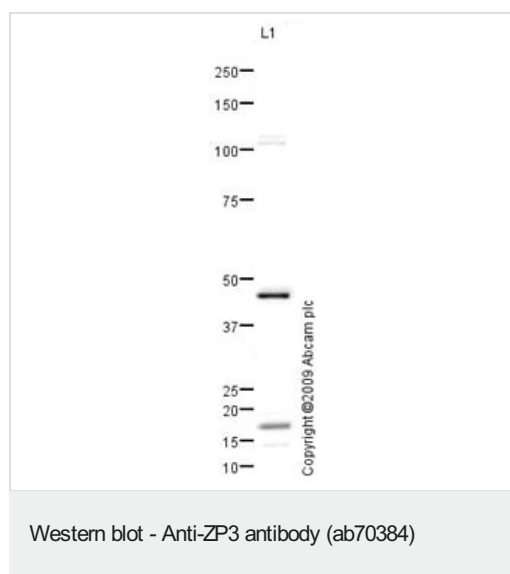
Post-translational modifications

Proteolytically cleaved before the transmembrane segment to yield the secreted ectodomain incorporated in the zona pellucida.
N-glycosylated.
O-glycosylated; removal of O-linked glycans may play an important role in the post-fertilization block to polyspermy.

Cellular localization

Secreted > extracellular space > extracellular matrix and Cell membrane.

Images



Anti-ZP3 antibody (ab70384) at 1 µg/ml + JEG-3 (Human placental choriocarcinoma cell line) Whole Cell Lysate at 10 µg

Secondary

Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 47 kDa

Observed band size: 47 kDa

Additional bands at: 17 kDa (possible cleavage fragment)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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