

Product datasheet

Anti-ZP2 antibody ab231354

3 Images

Overview

Product name	Anti-ZP2 antibody
Description	Rabbit polyclonal to ZP2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Rat
Immunogen	Recombinant fragment (His-T7-tag) corresponding to Rat ZP2 aa 353-616. (Expressed in E.coli) Sequence: CTRDFMDFEVYSHQTKPALNLESLLVGNSSCQPIFKVQ SLGLARFHIPL NGCGTRQKFEQDKVIYENIEHALWENPPSNIIFRNSEFRMT VRCHYRDS MLLRAHIKSHSSPVASVKPGPLALVLQYTPDISYQRPYRKN EYPLVRYLR QPIMEVTVLNRNDPNIKLVLDDCWATTFEDPASVPQWQII MDGCEYELD NYRTTFHAANSSAAHSGHYQRFDVKTFAFVSESRGLSSLI YFHCSALICN QASPLCSVTC PAP

Database link: [O54767](#)

 [Run BLAST with](#)  [Run BLAST with](#)

Positive control WB: Rat ovary and placenta tissue; Recombinant rat ZP2 protein. IHC-P: Rat ovary tissue.

General notes

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab231354** 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
IHC-P		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 78 kDa.

Target

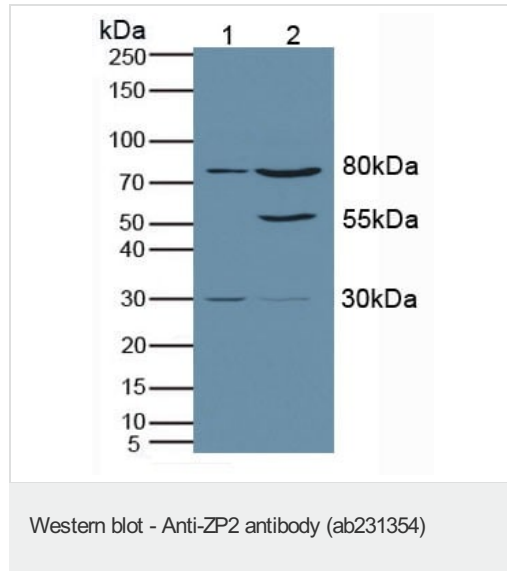
Function	The mammalian zona pellucida, which mediates species-specific sperm binding, induction of the acrosome reaction and prevents post-fertilization polyspermy, is composed of three to four glycoproteins, ZP1, ZP2, ZP3, and ZP4. ZP2 may act as a secondary sperm receptor.
Tissue specificity	Oocytes.
Sequence similarities	Belongs to the ZP domain family. ZPA subfamily. Contains 1 ZP domain.
Developmental stage	Expressed during the 2-week growth phase of oogenesis, prior to ovulation.
Domain	The ZP domain is involved in the polymerization of the ZP proteins to form the zona pellucida.
Post-translational	Proteolytically cleaved before the transmembrane segment to yield the secreted ectodomain incorporated in the zona pellucida.

modifications

Proteolytically cleaved in the N-terminal part after fertilization, yielding a N-terminal peptide of about 30 kDa which remains covalently attached to the C-terminal peptide via disulfide bond(s). This cleavage may play an important role in the post-fertilization block to polyspermy. O-glycosylated; contains sulfate-substituted glycans.

Cellular localization

Secreted > extracellular space > extracellular matrix and Cell membrane.

Images

All lanes : Anti-ZP2 antibody (ab231354) at 1 µg/ml

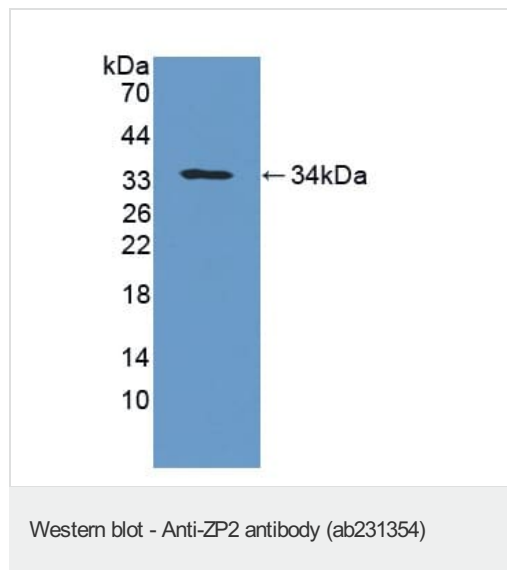
Lane 1 : Rat ovary tissue lysate.

Lane 2 : Rat placenta tissue lysate.

Secondary

All lanes : HRP-Linked Guinea pig Anti-Rabbit Ab at 1/2000 dilution

Predicted band size: 78 kDa

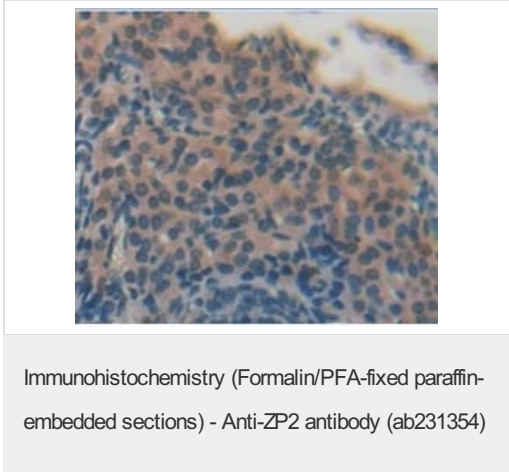


Anti-ZP2 antibody (ab231354) at 1 µg/ml + Recombinant rat ZP2 protein.

Secondary

HRP-Linked Guinea pig Anti-Rabbit Ab at 1/2000 dilution

Predicted band size: 78 kDa



Formalin-fixed, paraffin-embedded rat ovary tissue stained for ZP2 using ab231354 at 20 µg/mL in immunohistochemical analysis.

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

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