

Product datasheet

Anti-ZP3 antibody ab48895

★★★★☆ 3 Abreviews 1 Image

Overview

Product name	Anti-ZP3 antibody
Description	Rabbit polyclonal to ZP3
Host species	Rabbit
Tested applications	Suitable for: ICC, WB
Species reactivity	Reacts with: Human Predicted to work with: Cow
Immunogen	A region within synthetic peptide: QWSRSASRNR RHVTEEADVTVGGLIFLDRR GDHEVEQWAL PSDTSVLLG, corresponding to internal sequence amino acids 342-391 of Human ZP3 Run BLAST with ExPASy Run BLAST with NCBI
Positive control	HepG2 cell lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab48895** in the following tested applications.

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

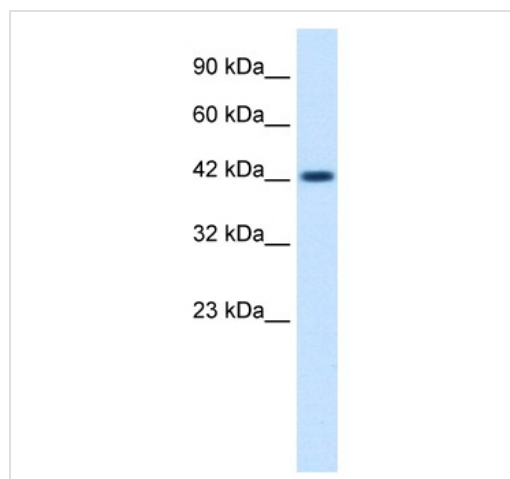
Application	Abreviews	Notes
ICC	★★★★☆	Use at an assay dependent concentration.

Application	Abreviews	Notes
WB	★★★★★	Use a concentration of 0.6 µg/ml. Detects a band of approximately 47 kDa (predicted molecular weight: 47 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

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



Western blot - Anti-ZP3 antibody (ab48895)

Anti-ZP3 antibody (ab48895) at 0.6 µg/ml + HepG2 cell lysate at 10 µg

Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Developed using the ECL technique.

Predicted band size: 47 kDa

Observed band size: 45 kDa

[why is the actual band size different from the predicted?](#)

Diluted in 5% skim milk / PBS buffer, gel concentration 12%

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