

Product datasheet

Anti-ZP1 antibody [EPR10827] α b171954

Recombinant RabMAb

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Overview

Product name	Anti-ZP1 antibody [EPR10827]
Description	Rabbit monoclonal [EPR10827] to ZP1
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Synthetic peptide within Human ZP1 aa 200-300 (Cysteine residue). The exact sequence is proprietary. Database link: P60852
Positive control	NIH: OVCAR-3, SK-OV-3, LOVO cell line lysates and Human ovary cancer tissue lysate
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant

Clonality	Monoclonal
Clone number	EPR10827
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab171954 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

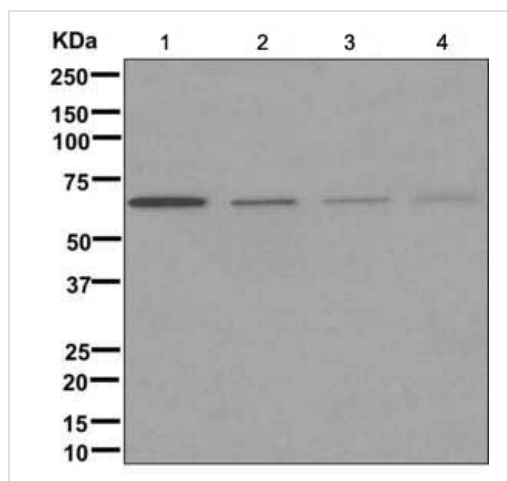
Application	Abreviews	Notes
WB		1/1000 - 1/5000. Predicted molecular weight: 70 kDa.

Application notes Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

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. ZP1 ensures the structural integrity of the zona pellucida.
Tissue specificity	Oocytes.
Sequence similarities	Belongs to the ZP domain family. ZPB subfamily. Contains 1 P-type (trefoil) domain. 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. O-glycosylated.
Cellular localization	Secreted > extracellular space > extracellular matrix and Cell membrane.

Images



Western blot - Anti-ZP1 antibody [EPR10827]
(ab171954)

All lanes : Anti-ZP1 antibody [EPR10827] (ab171954) at 1/1000 dilution

Lane 1 : NIH: OVCAR-3 cell lysate

Lane 2 : SK-OV-3 cell lysate

Lane 3 : LOVO cell lysate

Lane 4 : Human ovary cancer tissue lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 70 kDa

Why choose a
recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-ZP1 antibody [EPR10827] (ab171954)

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

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