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Anti-ZP4 Antibody

Catalog # AP59862

Product Information

Application	WB, IF/IC
Primary Accession	Q12836
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59400

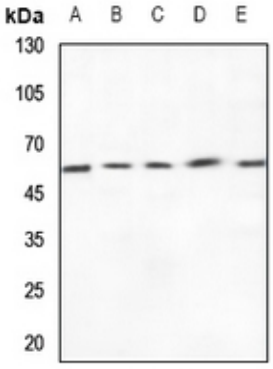
Additional Information

Gene ID	57829
Other Names	ZPB; Zona pellucida sperm-binding protein 4; Zona pellucida glycoprotein 4; Zp-4; Zona pellucida protein B
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ZP4. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

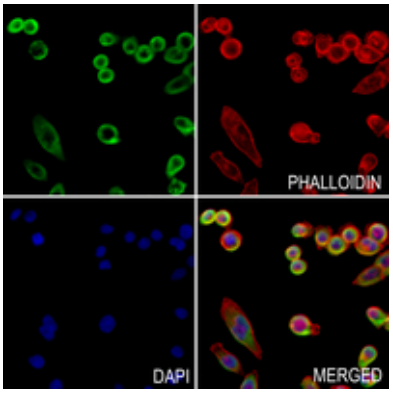
Protein Information

Name	ZP4
Synonyms	ZPB
Function	Component of the zona pellucida, an extracellular matrix surrounding oocytes which mediates sperm binding, induction of the acrosome reaction and prevents post-fertilization polyspermy. The zona pellucida is composed of 3 to 4 glycoproteins, ZP1, ZP2, ZP3, and ZP4. ZP4 may act as a sperm receptor.
Cellular Location	[Processed zona pellucida sperm-binding protein 4]: Zona pellucida {ECO:0000250|UniProtKB:Q00193}
Tissue Location	Expressed in oocytes.

Images



Western blot analysis of ZP4 expression in HEK293T (A), H1688 (B), mouse testis (C), mouse spleen (D), rat testis (E) whole cell lysates. (Predicted band size: 59 kD; Observed band size: 59 kD)



Immunofluorescent analysis of ZP4 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.