PRODUCT DATA SHEET

ZP3 rabbit pAb

Catalog No.	IPB14348
Reactivity	Human; Mouse; Rat
Applications	WB
Dilution	WB: 1:500-2000
Gene Name	ZP3 ZP3A ZP3B ZPC
Protein Name	ZP3
Human Gene Id	7784
Swiss-Prot	P21754
Formulation	Liquid in PBS containing 50% glycerol, 05% BSA and 002% sodium azide
Source	Rabbit
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen
Concentration	1 mg/ml
Storage&Stability	-20°C/1 year
Subcellular Location	[Processed zona pellucida sperm-binding protein 3]: Zona pellucida Cell membrane; Single-pass type I membrane protein
MW	46640
Background	The zona pellucida is an extracellular matrix that surrounds the oocyte and early embryo It is composed primarily of three or four glycoproteins with various functions during fertilization and preimplantation development The protein encoded by this gene is a structural component of the zona pellucida and functions in primary binding and induction of the sperm acrosome reaction The nascent protein contains a N-terminal signal peptide sequence, a conserved ZP domain, a C-terminal consensus furin cleavage site, and a transmembrane domain It is hypothesized that furin cleavage results in release of the mature protein from the plasma membrane for subsequent incorporation into the zona pellucida matrix However, the requirement for furin cleavage in this process remains controversial based on mouse studies A variation in the last exon of this gene has previously served as the basis for an additional ZP3 locus; however, sequence and literature review reveals that there is only one full-length ZP3 locus in the human genome Another locus encoding a bipartite transcript designated POMZP3 contains a duplication of the last four exons of ZP3, including the above described variation, and maps closely to this gene

Products Images:

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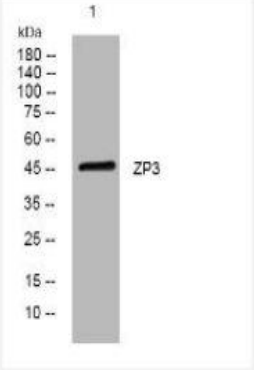

Western blot analysis of lysates from CACO2 cells, primary antibody was diluted at 1:1000, 4°over night