ZP3 Polyclonal Antibody

Catalog No: #31520

Package Size: #31520-1 50ul #31520-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

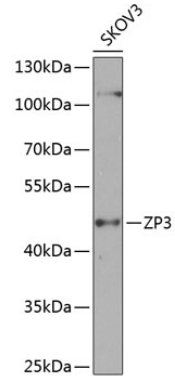
Description

Product Name	ZP3 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IF
Species Reactivity	Hu,Rt
Immunogen Description	Recombinant fusion protein of human ZP3 (NP_001103824.1).
Other Names	ZP3; ZP3A; ZP3B; ZPC; Zp-3; zona pellucida glycoprotein 3
Accession No.	Swiss-Prot#:P21754NCBI Gene ID:7784
Calculated MW	47kDa
Formulation	Avoid freeze / thaw cycles.|Buffer: PBS with 50% glycerol, pH7.4.
Storage	Store at -20°C

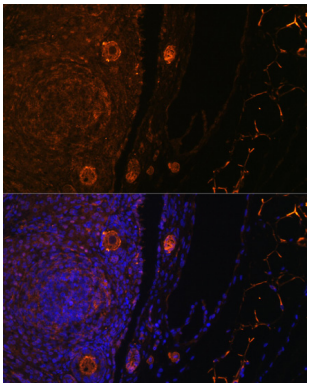
Application Details

WB□1:500 - 1:2000IF□1:50 - 1:200

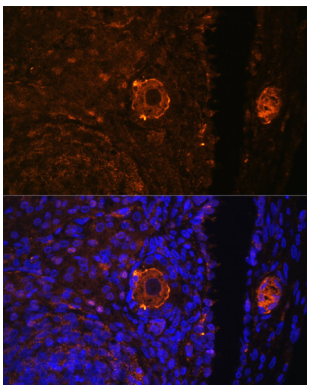
Images



Western blot analysis of extracts of SKOV3 cells, using ZP3 antibody.



Immunofluorescence analysis of rat oophoroma cells using ZP3 antibody.



Immunofluorescence analysis of rat oophoroma cells using ZP3 antibody.

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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.