Datasheet for ABIN7256676

anti-Zona Pellucida Glycoprotein 3 antibody

Overview

Quantity: 200 μL
Target: Zona Pellucida Glycoprotein 3 (ZP3)
Reactivity: Human, Rat, Mouse
Host: Rabbit
Clonality: Polyclonal
Conjugate: This Zona Pellucida Glycoprotein 3 antibody is un-conjugated
Application: Immunofluorescence (IF)

Product Details

Immunogen: A synthetic peptide of human ZP3 (NP_001103824.1).
Isotype: IgG
Characteristics: Polyclonal Antibody
Purification: Affinity purification

Target Details

Target: Zona Pellucida Glycoprotein 3 (ZP3)
Alternative Name: ZP3 (ZP3 Products)
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.
Target Details

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.

Gene ID: 7784
UniProt: P21754
Pathways: Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Application Notes: IF 1:50-1:200
Restrictions: For Research Use only

Handling

Format: Liquid
Concentration: 1 mg/mL
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3
Preservative: Sodium azide
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage: -20 °C
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.
Please check the product details page for more images. Overall 6 images are available for ABIN7256676.