

DNAxPAb

Hard-to-Find
Antibody

ZP3 DNAxPab

Catalog # H00007784-W01P

Size 200 ug

Specification

| | |
|-------------------------|---|
| Product Description | Rabbit polyclonal antibody raised against a full-length human ZP3 DNA using DNAx™ Immune technology. |
| Technology | DNAx™ Immune |
| Immunogen | Full-length human DNA |
| Sequence | MVMVSKDLFGTGKLIRAADLTGPEACEPLVSMDTEDVVRFEVGLHECGNSMQVTDDALVYSTFLLHDP RPVGNLSMVRTNRAEIPICRYPRQGNVSSQAILPTWLPFRRTTVFSEEKLTFSRLMEENWNAEKRSPTFHLGDA AHLQAEIHTGSHVPLRLFVDHCVATPTPDQNASPYHTMDFHGC LVDGLTDASSAFKVPRPGPDTLQFTVDVFHFANDSRNMMYTCHLKVTLAEQDPDELNKACSF SKPSNSWFPV EGSADICQCCNKGDCGTPSHSRRQPHVMSQWSRSASRNRHVTEEADVTVGPLIFLDRRGDHEVEQWALPSDTSVLLGVGLAVVVS LTLTAVILVLTRRCRTASHPVSASE |
| Host | Rabbit |
| Reactivity | Human |
| Purification | Protein A |
| Quality Control Testing | Antibody reactive against mammalian transfected lysate. |
| Storage Buffer | In 1x PBS, pH 7.4 |
| Storage Instruction | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

Gene Info — ZP3

Entrez GeneID [7784](#)

GeneBank Accession# [BC146482](#)

Protein Accession# [AA46483.1](#)

Gene Name ZP3

Gene Alias ZP3A, ZP3B, ZPC

Gene Description zona pellucida glycoprotein 3 (sperm receptor)

Omim ID [182889](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations zona pellucida glycoprotein 3|zona pellucida glycoprotein 3A (sperm receptor)|zona pellucida glycoprotein 3B|zona pellucida protein C|zona pellucida sperm-binding protein 3