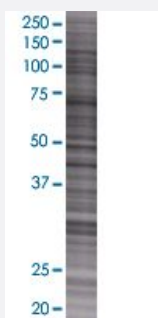


# ZP3 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00007784-T01

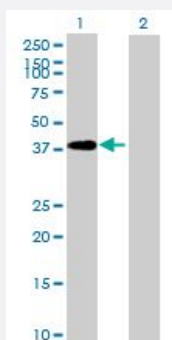
Size 100 uL

## Applications



### SDS-PAGE Gel

ZP3 transfected lysate.



### Western Blot

Lane 1: ZP3 transfected lysate ( 41.03 KDa)

Lane 2: Non-transfected lysate.

## Specification

Transfected Cell Line	293T
Plasmid	pCMV-ZP3 full-length
Host	Human
Theoretical MW (kDa)	41.03
Interspecies Antigen Sequence	Mouse (69); Rat (67)

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-ZP3 antibody ([H00007784-B01](#)) by Western Blots.  
SDS-PAGE Gel  
ZP3 transfected lysate.  
Western Blot  
Lane 1: ZP3 transfected lysate ( 41.03 KDa)  
Lane 2: Non-transfected lysate.

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## 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