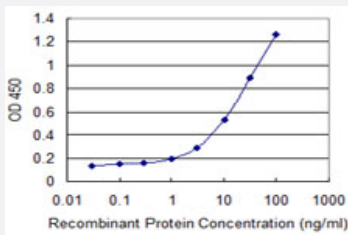


## ZP2 monoclonal antibody (M01), clone 2B9

Catalog # H00007783-M01

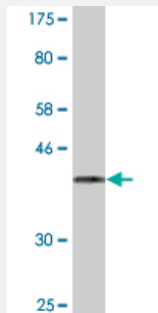
Size 100 ug

### Applications



#### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ZP2 is 0.3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.84 KDa) .

### Specification

#### Product Description

Mouse monoclonal antibody raised against a partial recombinant ZP2.

#### Immunogen

ZP2 (NP\_003451.1, 400 a.a. ~ 509 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

#### Sequence

NSSCQPVFEAQSQGLVRFHIPLNGCGTRYKFEDDKVVYENEIHALWTDFFPPSKISRDSEFRMTVK  
CSYSRNDMLLNINVESLTPPVASVKLGPFLLILQSYPDNSYQQPY

#### Host

Mouse

#### Reactivity

Human

Interspecies Antigen Sequence	Mouse (65); Rat (67)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
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 (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ZP2 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — ZP2

Entrez GeneID	<a href="#">7783</a>
GeneBank Accession#	<a href="#">NM_003460</a>
Protein Accession#	<a href="#">NP_003451.1</a>
Gene Name	ZP2
Gene Alias	ZPA
Gene Description	zona pellucida glycoprotein 2 (sperm receptor)
Omim ID	<a href="#">182888</a>
Gene Ontology	<a href="#">Hyperlink</a>

**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 secondary binding and penetration of acrosome-reacted spermatozoa. The nascent protein contains a N-terminal signal peptide sequence, a conserved ZP domain, a consensus furin cleavage site, and a C-terminal 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. [provided by RefSeq]

**Other Designations**

zona pellucida glycoprotein 2|zona pellucida protein A|zona pellucida sperm-binding protein 2