

Product datasheet for TP319115

ZP2 (NM_003460) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human zona pellucida glycoprotein 2 (sperm receptor) (ZP2), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC219115 representing NM_003460 Red =Cloning site Green =Tags(s) |

MACRQRGGSWSPSGWFNAGWSTYRSISLFFALVTSVNSIDVSQLVNPAFPGTVTCDEREITVEFPSSPGT
KKWHASVVDPLGLDMPNCTYILDPEKLTLRATYDNCTRRVHGGHQMTIRVMNNSAALRHGAVMYQFFC
PA

MQVEETQGLSASTICQKDFMSFSLPRVFSGLADDSKGTQVQMGWSIEVGDGARAKTLTLPEAMKEGFSLL
IDNHRMTFHVFPNATGVTHYVQGNSHLYMVSLKLTIFISPGQKVISSQAICAPDPVTCNATHMTLTIPEF
PGKLSVSFENQIDVSQLHDNGIDLEATNGMKLHFSKTLTKLSEKLLHQFYLASLKLTLFLLRPETV
SMVIYPECLCESPVSIVTGELCTQDGFMDVEVYSYQTQPALDLGTLRVGNSSCQPVFEAQSQGLVRFHIP
LNGCGTRYKFEDDKVYENEIHALWTDFFPSKISRDFRMTVKCSYSRNDMLLNINVESLTPPVASVKL
GPFTLILQSYPDNSYQQPYGENEYPLVRFRLRQPIYMEVRVLRDDPNIKLVLDWCWATSTMDPDSFPQW
N

VVDGCAVDLDNYQTTFFHPVGSVTHPDHYQRFDMKAFVSEAHVLSLVYFHCSALICNRLSPDSPLC
SVTCPVSSRHRRATGATEAEKMTVSLPGPILLSSDDSSFRGVGSSDLKASGSSGEKSRSETGEEVGSRGA
MDTKGHKTAGDVGSKAVAAVAFAFAGVWATLGFIIYLYEKRTVSNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

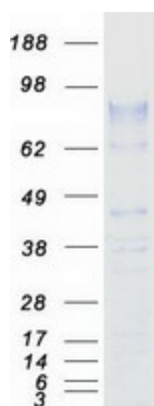
| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 78.2 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |



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|--------------------------|---|
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_003451 |
| Locus ID: | 7783 |
| UniProt ID: | Q05996 |
| RefSeq Size: | 2266 |
| Cytogenetics: | 16p12.3-p12.2 |
| RefSeq ORF: | 2235 |
| Synonyms: | OOMD6; Zp-2; ZPA |
| Summary: | The zona pellucida is an extracellular matrix that surrounds the oocyte and early embryo. It is composed of three glycoproteins with various functions during fertilization and preimplantation development. The glycosylated mature peptide is one of the structural components of the zona pellucida and functions in secondary binding and penetration of acrosome-reacted spermatozoa. Female mice lacking this gene do not form a stable zona matrix and are sterile. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014] |
| Protein Families: | Secreted Protein, Transmembrane |

Product images:



Coomassie blue staining of purified ZP2 protein (Cat# TP319115). The protein was produced from HEK293T cells transfected with ZP2 cDNA clone (Cat# [RC219115]) using MegaTran 2.0 (Cat# [TT210002]).