

Product datasheet for TP319115M

ZP2 (NM_003460) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human zona pellucida glycoprotein 2 (sperm receptor) (ZP2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219115 representing NM_003460 Red=Cloning site Green=Tags(s)

MACRQRGGSWSPSGWFNAGWSTYRSISLFFALVTSVNSIDVSQLVNPAPFGTVTCDEREITVEFPSSPGT
KKWHASVWDPLGLDMPNCTYILDPEKLTLRATYDNCTRRVHGGHQMTIRVMNNSAALRHGAVMYQFFCPA
MQVEETQGLSASTICQKDFMSFSLPRVFSGLADDSKGTQVQMGWSIEVGDGARAKTLTPEAMKEGFSLL
IDNHRMTFHVPFNATGVTHYVQGNSHLYMVSLKLTIFSPGQKVIFSSQAICAPDPVTCNATHMTLTIPF
PGKLSVSVFENQIDVSQLHDNGIDLEATNGMKLHFSKTLKTKLSEKCLLHQFYLASLKLTFLLRPETV
SMVIYPECLCESPVSIVTGELCTQDGFMDVEVYSYQTQPALDLGTLRVGNSSCQPVFEAQSQGLVRFHIP
LNGCGTRYKFEDDKVYENEIHALWTDFFPSKISRDEFRMTVKCSYRNDMLLNINVESLTPPVASVKL
GPFTLILQSYDPNSYQQPYGENEYPLVRFRLRQPIYMEVRVLRNDDPNIKLVLDCCWATSTMDPDSFPQWN
VVDGCAYDLNRYQTTFFHPVGGSSVTHPDHYQRFDKMAFAFVSEAHVLSLVYFHCSALICNRLSPDSPLC
SVTCPVSSRHRRATGATEAEKMTVSLPGPILLSDSSFRGVSDDLKASGSSGEKRSRSETGEEVGSRGA
MDTKGHKTAGDVGSKAVAAVAFAFAGVWATLGFIIYLYEKRTVSNH

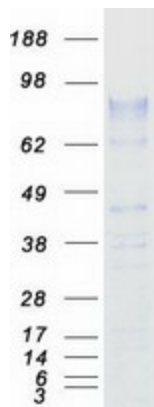
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
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.



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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]).