Datasheet for ABIN7490852

Zona Pellucida Glycoprotein 3 Protein (ZP3) (AA 23-386) (His tag)

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Overview

Quantity:	100 µg
Target:	Zona Pellucida Glycoprotein 3 (ZP3)
Protein Characteristics:	AA 23-386
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Zona Pellucida Glycoprotein 3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant human ZP3 protein with C-terminal 6xHis tag
Specificity:	ZP3 (Gln23-Ser386) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 85 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	Zona Pellucida Glycoprotein 3 (ZP3)
Alternative Name:	ZP3 (ZP3 Products)
Background:	The zona pellucida is an extracellular matrix that surrounds the oocyte and early embryo. It is

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Target Details

	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, Jul 2008]
Molecular Weight:	predicted molecular mass of 66.6 kDa after removal of the signal peptide. The apparent molecular mass of ZP3-His is 100-130 kDa due to glycosylation.
UniProt:	P21754
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months

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