Datasheet for ABIN1537191

anti-Zona Pellucida Glycoprotein 3 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	Zona Pellucida Glycoprotein 3 (ZP3)
Binding Specificity:	AA 353-380, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Zona Pellucida Glycoprotein 3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This ZP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 353-380 amino acids from the C-terminal region of human ZP3.
Clone:	RB36988
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

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

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.
Molecular Weight:	47018
Gene ID:	7784
NCBI Accession:	NP_001103824, NP_009086
UniProt:	P21754
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	ZP3 Antibody (C-term) can be refrigerated at 2-8 °C for up to 6 months. For long term storage,

Handling

	keep at -20 °C.
Expiry Date:	6 months

Publications

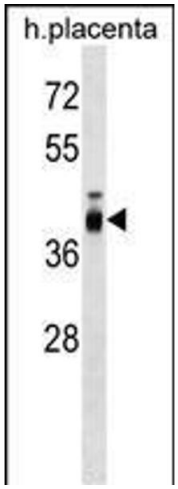
Product cited in:

Sun, Bristol, Iwahori, Hagemeier, Meng, Barlow, Fingeroth, Tarakanova, Kalejta, Kenney: "Hsp90 inhibitor 17-DMAG decreases expression of conserved herpesvirus protein kinases and reduces virus production in Epstein-Barr virus-infected cells." in: **Journal of virology**, Vol. 87, Issue 18, pp. 10126-38, (2013) (PubMed).

Meng, Hagemeier, Fingeroth, Gershburg, Pagano, Kenney: "The Epstein-Barr virus (EBV)-encoded protein kinase, EBV-PK, but not the thymidine kinase (EBV-TK), is required for ganciclovir and acyclovir inhibition of lytic viral production." in: **Journal of virology**, Vol. 84, Issue 9, pp. 4534-42, (2010) (PubMed).

Meng, Hagemeier, Kuny, Kalejta, Kenney: "Simian virus 40 T/t antigens and lamin A/C small interfering RNA rescue the phenotype of an Epstein-Barr virus protein kinase (BGLF4) mutant." in: **Journal of virology**, Vol. 84, Issue 9, pp. 4524-33, (2010) (PubMed).

Images



Western Blotting

Image 1. ZP3 Antibody (C-term) (ABIN1537191 and ABIN2848874) western blot analysis in human placenta tissue lysates (35 µg/lane).This demonstrates the ZP3 antibody detected the ZP3 protein (arrow).