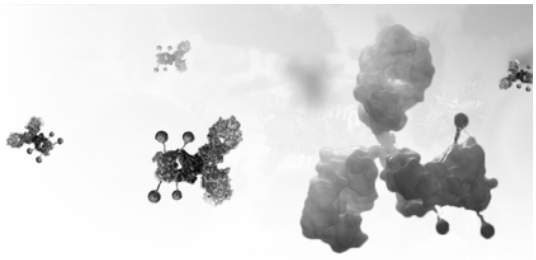

Human PDIA3 peptide (DAG-P1567)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates. [provided by RefSeq, Jul 2008]
Specificity	Detected in the flagellum and head region of spermatozoa (at protein level).
Conjugate	Unconjugated
Sequence Similarities	Belongs to the protein disulfide isomerase family.Contains 2 thioredoxin domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	PDIA3 protein disulfide isomerase family A, member 3 [Homo sapiens (human)]
Official Symbol	PDIA3
Synonyms	PDIA3; protein disulfide isomerase family A, member 3; P58; ER60; ERp57; ERp60; ERp61; GRP57; GRP58; PI-PLC; HsT17083; HEL-S-269; HEL-S-93n; protein disulfide-isomerase A3; ER protein 57; ER protein 60; phospholipase C-alpha; 58 kDa microsomal protein; disulfide isomerase ER-60; endoplasmic reticulum P58; 58 kDa glucose-regulated protein; glucose regulated protein, 58kDa; epididymis secretory protein Li 269; protein disulfide isomerase-

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	associated 3; endoplasmic reticulum resident protein 57; endoplasmic reticulum resident protein 60; epididymis secretory sperm binding protein Li 93n;
Entrez Gene ID	2923
mRNA Refseq	NM_005313.4
Protein Refseq	NP_005304.3
UniProt ID	P30101
Chromosome Location	15q15
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Asparagine N-linked glycosylation, organism-specific biosystem; Calnexin/calreticulin cycle, organism-specific biosystem; Class I MHC mediated antigen
Function	cysteine-type endopeptidase activity; phospholipase C activity; poly(A) RNA binding; protein binding; protein disulfide isomerase activity; protein disulfide oxidoreductase activity;

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