10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Placental Protein 14 / PAEP Rabbit Monoclonal Antibody

Catalog # ABO15590

Product Information

Application	WB
Primary Accession	P09466
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-Placental Protein 14 / PAEP Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human.

Additional Information

Gene ID	5047
Other Names	Glycodelin, GD, Placental protein 14, PP14, Pregnancy-associated endometrial alpha-2 globulin, PAEG, PEG, Progestagen-associated endometrial protein, Progesterone-associated endometrial protein, Zona-binding inhibitory factor-1, ZIF-1, PAEP
Calculated MW	20624
Application Details	WB 1:500-1:2000
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 21P66
Immunogen	A synthesized peptide derived from human Placental Protein 14 / PAEP
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	PAEP
Function	Glycoprotein that regulates critical steps during fertilization and also has

immunomonomodulatory effects. Four glycoforms, namely glycodelin-S, -A, -F and -C have been identified in reproductive tissues that differ in glycosylation and biological activity. Glycodelin-A has contraceptive and immunosuppressive activities (PubMed:7531163, PubMed:9918684). Glycodelin-C stimulates binding of spermatozoa to the zona pellucida (PubMed:17192260). Glycodelin-F inhibits spermatozoa-zona pellucida binding and significantly suppresses progesterone-induced acrosome reaction of spermatozoa (PubMed:12672671). Glycodelin-S in seminal plasma maintains the uncapacitated state of human spermatozoa (PubMed:15883155).

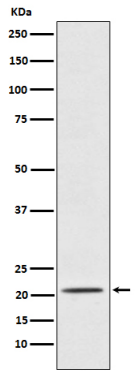
Cellular Location

Secreted

Tissue Location

This protein is, the main protein synthesized and secreted in the endometrium from mid-luteal phase of the menstrual cycle and during the first semester of pregnancy (PubMed:3667877) Glycodelin-A is expressed in amniotic fluid, endometrium/decidua and maternal serum (at protein level) (PubMed:3194393). Glycodelin-F is expressed in follicular fluid, luteinized granulosa cells and the oviduct (at protein level) (PubMed:12672671). Glycodelin-S is expressed in seminal plasma and seminal vesicles (at protein level) (PubMed:9239694). Glycodelin-C is detected in cumulus cells (at protein level), but cumulus cells do not synthesize Glycodelin-C but take up and convert glycodelin-A and -F vis glycan remodeling (PubMed:17192260).

Images



Western blot analysis of Placental Protein 14 / PAEP expression in TPA-treated K562 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.