

**ZAR1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16486c****Specification**

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**ZAR1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q86SH2</a>
Other Accession	<a href="#">NP_783318.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	45873
Antigen Region	108-137

**ZAR1 Antibody (Center) - Additional Information****Gene ID** 326340**Other Names**

Zygote arrest protein 1, Oocyte-specific maternal effect factor, ZAR1

**Target/Specificity**

This ZAR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 108-137 amino acids from the Central region of human ZAR1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ZAR1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**ZAR1 Antibody (Center) - Protein Information****Name** ZAR1 {ECO:0000303|PubMed:12539046, ECO:0000312|HGNC:HGNC:20436}**Function** mRNA-binding protein that mediates formation of MARDO (mitochondria-associated ribonucleoprotein domain), a membraneless compartment that stores maternal mRNAs in oocytes.

MARDO assembly around mitochondria is directed by an increase in mitochondrial membrane potential during oocyte growth. Promotes formation of MARDO phase-separated membraneless compartment by undergoing liquid-liquid phase separation upon binding to maternal mRNAs. Binds to the 3'-UTR of maternal mRNAs. Maternal mRNAs stored in the MARDO are translationally repressed. Essential for female fertility and oocyte-to-embryo transition by coordinating maternal mRNA storage, translation and degradation.

#### Cellular Location

Cytoplasm, Cytoplasmic ribonucleoprotein granule {ECO:0000250|UniProtKB:Q80SU3}. Cytoplasm {ECO:0000250|UniProtKB:Q80SU3}. Note=Specifically localizes to MARDO (mitochondria-associated ribonucleoprotein domain), a mitochondria-associated membraneless compartment that stores mRNAs in oocytes {ECO:0000250|UniProtKB:Q80SU3}

#### Tissue Location

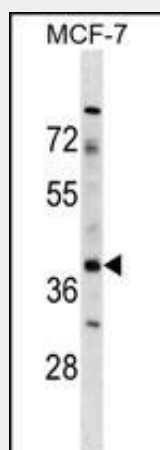
Ovary and testis..

### ZAR1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ZAR1 Antibody (Center) - Images



ZAR1 Antibody (Center) (Cat. #AP16486c) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the ZAR1 antibody detected the ZAR1 protein (arrow).

### ZAR1 Antibody (Center) - Background

The female gamete, the oocyte, serves the distinct purpose of transmitting the maternal genome and other maternal factors critical for postovulation events. Oocytes have diverse functions in ovarian folliculogenesis, fertilization, and embryogenesis. ZAR1

is an oocyte-specific gene that appears to function at the oocyte-to-gamete transition (Wu et al., 2003 [PubMed 12539046]).

#### **ZAR1 Antibody (Center) - References**

Shinojima, Y., et al. J. Dermatol. Sci. 59(2):98-106(2010)  
Uzbekova, S., et al. Reprod. Biol. Endocrinol. 4, 12 (2006) :  
Wu, X., et al. Biol. Reprod. 69(3):861-867(2003)  
Wu, X., et al. Nat. Genet. 33(2):187-191(2003)