

ZAR1 Polyclonal Antibody
Catalog # AP73116**Specification**

ZAR1 Polyclonal Antibody - Product Information

Application	IHC
Primary Accession	Q86SH2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

ZAR1 Polyclonal Antibody - Additional Information**Gene ID** 326340**Other Names**

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

Dilution

IHC~~IHC-p: 100-300. Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

ZAR1 Polyclonal Antibody - 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}

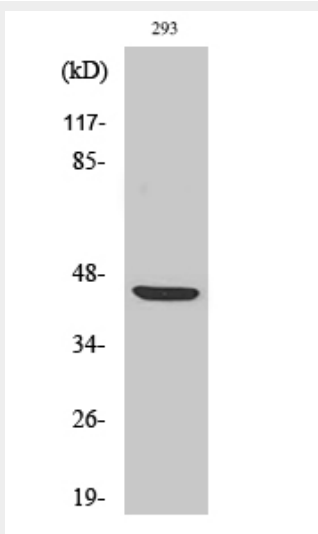
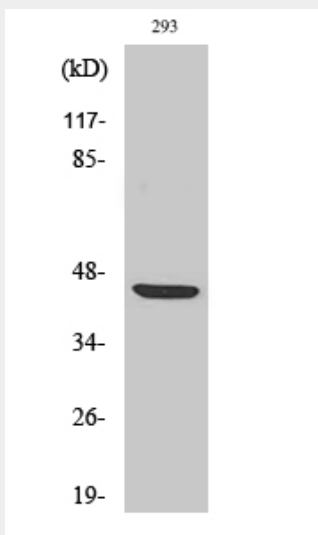
Tissue Location

Ovary and testis..

ZAR1 Polyclonal Antibody - 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 Polyclonal Antibody - Images

ZAR1 Polyclonal Antibody - Background

Essential for female fertility. May play a role in the oocyte-to-embryo transition (By similarity).