

ZAR1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50821**Specification**

ZAR1 Antibody - Product Information

Application	WB
Primary Accession	Q86SH2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46 KDa
Antigen Region	248-276

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

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

Dilution

WB~~ 1:1000

FormatRabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

ZAR1 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}

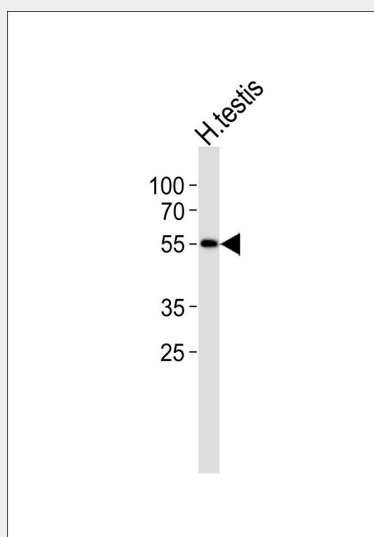
Tissue Location

Ovary and testis..

ZAR1 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 Antibody - Images

Western blot analysis of lysate from human testis tissue lysate, using ZAR1 Antibody, was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ZAR1 Antibody - Background

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

ZAR1 Antibody - References

Wu X., et al. Nat. Genet. 33:187-191(2003).
Wu X., et al. Biol. Reprod. 69:861-867(2003).