

ZAR1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50821

Product Information

Application	WB
Primary Accession	Q86SH2
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Calculated MW	45873

Additional Information

Gene ID	326340
Other Names	Zygote arrest protein 1, Oocyte-specific maternal effect factor, ZAR1
Dilution	WB~~ 1:1000
Format	Rabbit 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

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}

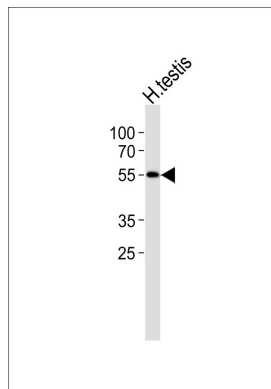
Background

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

References

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

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.

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