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ZAR1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP16486c

Specification

ZAR1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q86SH2

ZAR1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 326340

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ZAR1 Antibody (Center) Blocking Peptide - 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..

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ZAR1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

ZAR1 Antibody (Center) Blocking Peptide - Images

ZAR1 Antibody (Center) Blocking Peptide - Background

The female gamete, the oocyte, serves the distinct purposeof transmitting the maternal genome and other maternal factorscritical for postovulation events. Oocytes have diverse functionsin ovarian folliculogenesis, fertilization, and embryogenesis. ZAR1is an oocyte-specific gene that appears to function at theoocyte-to-gamete transition (Wu et al., 2003 [PubMed12539046]).

ZAR1 Antibody (Center) Blocking Peptide - 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)