

Anti-ZAR1 Antibody

Rabbit polyclonal antibody to ZAR1

Catalog # AP61023

Product Information

Application	WB
Primary Accession	Q86SH2
Other Accession	Q80SU3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45873

Additional Information

Gene ID	326340
Other Names	Zygote arrest protein 1; Oocyte-specific maternal effect factor
Target/Specificity	Recognizes endogenous levels of ZAR1 protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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}

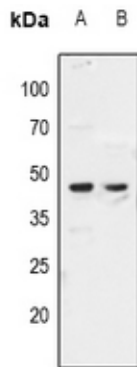
Tissue Location

Ovary and testis..

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ZAR1. The exact sequence is proprietary.

Images



Western blot analysis of ZAR1 expression in mouse testis (A), rat testis (B) whole cell lysates.

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