Data Sheet (Cat.No.TMAB-09223)

Anti-NANOS1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Chicken,Dog,Pig,Cow,Sheep)
Molecular Weight:	Theoretical: 30 kDa. Actual: 33 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: A431 (Human) Cell Lysate at 30 µg Primary: Anti-NANOS1 (TMAB-09223) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 30 kD Observed band size: 33 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: Human NANOS1
Antigen Species:	Human
Gene ID:	340719
Uniprot ID:	Q8WY41

Research Background

Nanos1is a 292 amino acid protein that localizes to the perinuclear region of the cytoplasm and contains one nanos-type zinc finger. Expressed at high levels in spermatogonia and present at lower levels in fetal ovaries, Nanos1 forms a complex with Pumilio 2 and functions to regulate the translation of select mRNAs, specifically via association with the 3'-UTR of its mRNA targets. Additionally, Nanos1 is required for the establishment and maintenance of germline stem cells, as it prevents their premature entry into oogenesis. The gene encoding Nanos1 maps to human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromatic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

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