

Anti-GGN Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Dog,Pig,Cow,Sheep)
Molecular Weight:	Theoretical: 67 kDa. Actual: 67 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: A549 (Human) Cell Lysate at 40 µg Primary: Anti-GGn (TMAB-06457) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 67 kD Observed band size: 67 kD 2. Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-GGN Polyclonal Antibody, Unconjugated (TMAB-06457) 1:1000, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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 GGN/Gametogenetin
Antigen Species:	Human
Gene ID:	199720
Uniprot ID:	Q86UU5

Research Background

Gametogenetin is a 652 amino acid protein that is primarily expressed in testis and ovary. Interacting with POG (proliferation of germ cells), GGNBP1 and LCRG1, gametogenetin is likely involved in spermatogenesis. Gametogenetin exists as three alternatively spliced isoforms commonly known as gametogenetin protein 1 (GGN1), gametogenetin protein 2 (GGN2) and gametogenetin protein 3 (GGN3), which localize to nuclear membrane, cytoplasm and nucleus/nucleoli, respectively. GGN1 contains two transmembrane domains in its N-terminal half and 2 C-terminal arginine- and lysine-rich nucleolar targeting sequences. GGN1 and GGN3 are likely linked to germ cell development and both GGN1 and GGN2 may be involved in cell trafficking.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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