

Anti-BPY2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 12 kDa. Actual: 12 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: HL-60 Cell (Human) Lysate at 40 µg Primary: Anti-BPY2 (TMAB-03198) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 12 kD Observed band size: 12 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 BPY2
Antigen Species:	Human
Gene ID:	442867
Uniprot ID:	O14599

Research Background

Mammalian spermatogenesis is a complex developmental process. Mutations at multiple loci and in structurally and functionally disparate genes in the genome affect gametogenesis. The analysis of mutations has provided insight into biochemical pathways required for completion of this process. The basic protein on Y chromosome 2 gene (BPY2, also designated VCY2) is located in a frequently deleted azoospermia factor c region. Three copies (paralogs) of the BPY2 gene (BPY2A, BPY2B, BPY2C) reside in the AZFc region. BPY2 protein expression is localized to the nuclei of spermatogonia, spermatocytes and round spermatids, but is absent from elongated spermatids. Impaired expression of BPY2 in infertile men suggests its involvement in male germ cell development. BPY2 interacts with MAP-1S, which shares homology with microtubule-associated proteins (MAPs), suggesting a role for BPY2 within the cytoskeletal network.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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