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Datasheet for ABIN4997584

**anti-BPY2 antibody (AA 51-106) (Alexa Fluor 680)**

## Overview

Quantity:	100 µL
Target:	BPY2
Binding Specificity:	AA 51-106
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BPY2 antibody is conjugated to Alexa Fluor 680
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Western Blotting (WB)

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human BPY2
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Purified by Protein A.

## Target Details

Target:	BPY2
Alternative Name:	BPY2 ( <a href="#">BPY2 Products</a> )
Background:	Synonyms: Basic charge, Basic charge Y linked 2, Basic charge Y linked 2C, Basic protein on Y

## Target Details

chromosome 2, BPY2A, BPY2B, BPY2C, Testis specic basic protein on Y 2, Testis specic basic protein Y 2, Testis-specific basic protein Y 2, Variable charge Y linked 2, Variably charged protein Y 2, VCY2, VCY2\_HUMAN, VCY2A, VCY2B, VCY2C, Y-linked 2.

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.

Gene ID: 442867

## Application Details

Application Notes: IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

## Handling

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Expiry Date: 12 months