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Datasheet for ABIN1713375  
**anti-BPY2 antibody (AA 51-106)**

### Overview

Quantity:	100 µL
Target:	BPY2
Binding Specificity:	AA 51-106
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BPY2 antibody is un-conjugated
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), ELISA, Immunocytochemistry (ICC)

### 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> )

## Target Details

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**Background:** Synonyms: Basic charge, Basic charge Y linked 2, Basic charge Y linked 2C, Basic protein on Y 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.

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**Gene ID:** 442867

## Application Details

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**Application Notes:** WB 1:300-5000  
ELISA 1:500-1000  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200  
ICC 1:100-500

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 1 µg/µL

**Buffer:** 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

**Preservative:** ProClin

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## Handling

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Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months