Datasheet for ABIN1696250
anti-BPY2 antibody (AA 51-106) (AbBy Fluor® ${ }^{\circledR} 555$ )


## Overview

| Quantity: | $100 \mu \mathrm{~L}$ |
| :--- | :--- |
| Target: | BPY2 |
| Binding Specificity: | AA 51-106 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This BPY2 antibody is conjugated to AbBy Fluor® 555 |
| Application: | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence |
|  | (Paraffin-embedded Sections) (IF (p)) |

## Product Details

| Immunogen: | KLH conjugated synthetic peptide derived from human BPY2 |
| :--- | :--- |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | Purified by Protein A. |
| Target Details | BPY2 |
| Target: | BPY2 (BPY2 Products) |
| Alternative Name: | Synonyms: Basic charge, Basic charge Y linked 2, Basic charge Y linked 2C, Basic protein on Y |
| Background: |  |

chromosome 2, BPY2A, BPY2B, BPY2C, Testis specic basic protein on Y 2, Testis specic basic protein Y 2, Testis-specic 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 VCY 2) 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: | $1 \mu \mathrm{~g} / \mu \mathrm{L}$ |
| 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: | $-20^{\circ} \mathrm{C}$ |
| Storage Comment: | Store at $-20^{\circ} \mathrm{C}$. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |

