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Datasheet for ABIN7149820

## anti-DPPA3 antibody (AA 1-159)

### 1 Image

#### Overview

Quantity:	100 µg
Target:	DPPA3
Binding Specificity:	AA 1-159
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DPPA3 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

#### Product Details

Immunogen:	Recombinant Human Developmental pluripotency-associated protein 3 protein (1-159AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

#### Target Details

Target:	DPPA3
Alternative Name:	DPPA3 ( <a href="#">DPPA3 Products</a> )
Background:	Background: Primordial germ cell (PGCs)-specific protein involved in epigenetic chromatin reprogramming in the zygote following fertilization. In zygotes, DNA demethylation occurs

## Target Details

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selectively in the paternal pronucleus before the first cell division, while the adjacent maternal pronucleus and certain paternally-imprinted loci are protected from this process. Participates in protection of DNA methylation in the maternal pronucleus by preventing conversion of 5mC to 5hmC: specifically recognizes and binds histone H3 dimethylated at '\\Lys-9\\' (H3K9me2) on maternal genome, and protects maternal genome from TET3-mediated conversion to 5hmC and subsequent DNA demethylation. Does not bind paternal chromatin, which is mainly packed into protamine and does not contain much H3K9me2 mark. Also protects imprinted loci that are marked with H3K9me2 in mature sperm from DNA demethylation in early embryogenesis. May be important for the totipotent/pluripotent states continuing through preimplantation development. Also involved in chromatin condensation in oocytogenesis (By similarity).  
Aliases: Compaction associated protein 1 antibody, Developmental pluripotency associated 3 antibody, Developmental pluripotency associated protein 3 antibody, Developmental pluripotency-associated protein 3 antibody, Dppa3 antibody, DPPA3\_HUMAN antibody, PGC7 antibody, Stella related protein antibody, Stella-related protein antibody

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UniProt: [Q6W0C5](#)

## Application Details

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Application Notes: Recommended dilution: IHC:1:200-1:500,

Restrictions: For Research Use only

## Handling

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Format: Liquid

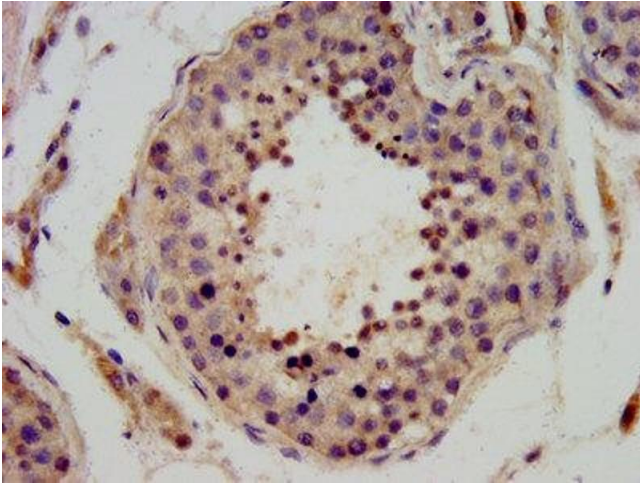
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

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,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



### Immunohistochemistry

**Image 1.** IHC image of ABIN7149820 diluted at 1:400 and staining in paraffin-embedded human testis tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.