Datasheet for ABIN1713577

anti-DPPA3 antibody (AA 101-159)

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Overview

Quantity:	100 µL
Target:	DPPA3
Binding Specificity:	AA 101-159
Reactivity:	Mouse, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DPPA3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Stella/DPPA3
Isotype:	IgG
Cross-Reactivity:	Mouse, Pig
Predicted Reactivity:	Human
Purification:	Purified by Protein A.

Target Details

Target:	DPPA3

Target Details

Alternative Name:	Stella/DPPA3 (DPPA3 Products)
Background:	Synonyms: STELLA, Developmental pluripotency-associated protein 3, Stella-related protein, DPPA3, STELLAR Background: Primordial germ cell (PGCs)-specific protein involved in epigenetic chromatin reprogramming in the zygote following fertilization. In zygotes, DNA demethylation occurs 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).
Gene ID:	359787
UniProt:	Q6W0C5

Application Details

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

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

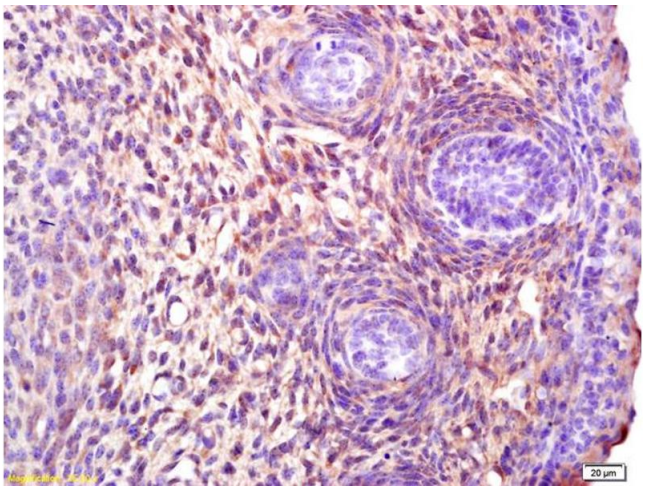
Handling

Preservative:	ProClin
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

Publications

Product cited in:	Wasielak, Więsak, Bogacka, Jalali, Bogacki: "Zygote arrest 1, nucleoplasmin 2, and developmentally associated protein 3 mRNA profiles throughout porcine embryo development in vitro." in: **Theriogenology**, Vol. 86, Issue 9, pp. 2254-2262, (2016) (PubMed).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse embryo labeled with Anti-Stella/DPPA3 Polyclonal Antibody, Unconjugated (ABIN1713577) at 1:200 followed by conjugation to the secondary antibody and DAB staining