

Rabbit anti-Mouse Dppa3 Polyclonal Antibody | anti-Dppa3 antibody

(Mouse) Dppa3 Antibody (C-term)

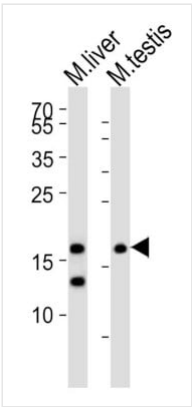
CATALOG # AAA286059	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

Dppa3; Polyclonal Antibody; (Mouse) Dppa3 Antibody (C-term); Developmental pluripotency-associated protein 3; Compaction-associated protein 1; Primordial germ cell protein 7; Cap1p; Crg1; Pgc7; anti-Dppa3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This mouse Dppa3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 134-170 amino acids from the C-terminal region of mouse Dppa3.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	150
Applicable Applications for anti-Dppa3 antibody	ELISA, WB (Western Blot)
Cellular Location	Nucleus. Cytoplasm. Note=Localized in the cytoplasm at the primary oocyte stage and in oocytes within mono-laminar follicles. Expressed in the nucleus and cytoplasm of oocytes in bi-laminar and Graafian follicles and during the 2-cell and morula stages. In 3.5 dpc blastocysts localization is mainly nuclear. Mainly localizes in the female pronucleus, localization to the male pronucleus is much weaker.
Tissue Location	Expressed in the immature oocytes and in newborn ovaries. Subsequently detected in maturing oocytes and in preimplantation embryos. Expressed in pluripotent embryonic but not in differentiated somatic cells. Expressed in blastocysts, epiblasts, primordial germ cells, embryonic gonads and primitive spermatogonia. No expression is detected in adult testes.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
Western blot analysis of lysates from mouse liver, mouse testis tissue (from left to right), using (Mouse) Dppa3 Antibody (C-term). AAA286059 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-Dppa3 antibody	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.
Product Categories/Family for anti-Dppa3 antibody	Crown Antibodies; Developmental Biology; Signal Transduction; Stem Cells
References	Saitou M.,et al.Nature 418:293-300(2002). Sato M.,et al.Mech. Dev. 113:91-94(2002). Bortvin A.,et al.Development 130:1673-1680(2003). Li W.,et al.Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases. Carninci P.,et al.Science 309:1559-1563(2005).

NCBI AND UNIPROT INFORMATION

NCBI GI #	21218416
NCBI GeneID	73708
NCBI Accession #	NP_631964.1
NCBI GenBank Nucleotide #	NM_139218.1
UniProt Accession #	Q8QZY3; F6S6F5
Molecular Weight	17670
NCBI Official Full Name	developmental pluripotency-associated protein 3
NCBI Official Synonym Full Names	developmental pluripotency-associated 3
NCBI Official Symbol	Dppa3
NCBI Official Synonym Symbols	PCG7; PGC7; Stella; 2410075G02Rik

NCBI Protein Information	developmental pluripotency-associated protein 3
UniProt Protein Name	Developmental pluripotency-associated protein 3
UniProt Gene Name	Dppa3
UniProt Synonym Gene Names	Cap1p; Crg1; Pgc7
UniProt Entry Name	DPPA3_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/dppa3-antibody-western-blot-elisa/286059>