

Rabbit anti-Human, Mouse Stella Polyclonal Antibody | anti-DPPA3 antibody

Stella Antibody

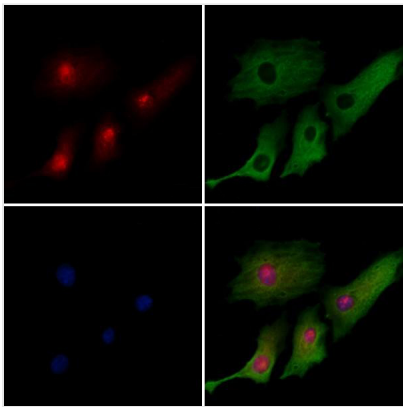
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328941	Rabbit	Human, Mouse	ELISA, Western Blot

PRODUCT SYNONYMS

Stella; Polyclonal Antibody; Stella Antibody; Compaction associated protein 1; Developmental pluripotency associated 3; Developmental pluripotency associated protein 3; Developmental pluripotency-associated protein 3; Dppa3; DPPA3_HUMAN; PGC7; Stella related protein; Stella-related protein; anti-DPPA3 antibody

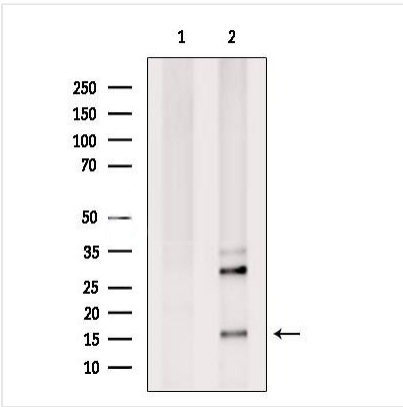
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Stella Antibody detects endogenous levels of total Stella.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	159
Applicable Applications for anti-DPPA3 antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide derived from human Stella, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)

AAA328941 staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA328941) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



WB (Western Blot)

Western blot analysis of extracts from RAW264.7 cells, using Stella Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-DPPA3 antibody

Function: 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 oocyteogenesis (By similarity).

Subcellular Location: Nucleus. Cytoplasm. Note: Mainly localizes in the female pronucleus, localization to the male pronucleus in much weaker.

Tissue Specificity: Low expression in testis, ovary and thymus. Expressed in embryonic stem and carcinoma cells. Highly expressed in testicular germ cell tumors.

Similarity: Mediates binding to H3K9me2 via N-terminal region, while ability to exclude TET3 from the maternal pronucleus requires the C-terminal part.

NCBI AND UNIPROT INFORMATION

NCBI GI #	40548326
NCBI GeneID	359787
NCBI Accession #	NP_954980.1
NCBI GenBank Nucleotide #	NP_954980.1
UniProt Accession #	Q6W0C5
Molecular Weight	Observed Molecular Weight: (Observed)17kD. Predicted Molecular Weight: (Calculated)18kDa.
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	Pgc7; STELLA
NCBI Protein Information	developmental pluripotency-associated protein 3
UniProt Protein Name	Developmental pluripotency-associated protein 3
UniProt Gene Name	DPPA3
UniProt Synonym Gene Names	STELLAR
UniProt Entry Name	DPPA3_HUMAN

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/stella-antibody-western-blot-elisa/328941>