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CT135/ODF3 Rabbit pAb

Catalog # AP97927

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96PU9
Other Accession	Q96PU9
Predicted	Rat, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27710
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ODF3/CT135
Epitope Specificity	101-200/254
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ODF3 family. Contains 2 STPGR (Sperm-tail PG-rich) repeats.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Outer dense fibers are filamentous structures located on the outside of the axoneme in the midpiece and principal piece of the mammalian sperm tail. May help to maintain the passive elastic structures and elastic recoil of the sperm tail. Constituting the main cytoskeletal structure of spermatid flagella, outer dense fibers (ODFs) add elastic recoil, stiffness and protection against shear forces during sperm movement. Human ODFs consist of approximately 10 major and at least 15 minor proteins. The major proteins of the ODF include Odf1, Odf2, and Odf3, which compose a family of proteins that are preferentially expressed during mammalian spermiogenesis. Odf3 (outer dense fiber protein 3), also known as sperm tail protein SHIPPO 1 and TISP50 (transcript induced in spermiogenesis protein 50), is a 254 amino acid protein that is expressed during the latter part of spermatogenesis in flagella of elongated spermatids and mature sperm. Odf proteins are directed to their exact subcellular location by Spags, which are characterized as chaperone-like Odf-binding molecules. There are two isoforms of Odf3 that are produced as a result of alternative splicing events.

Additional Information

Gene ID	113746
Other Names	CT135; ODF3; SHIPPO1; TISP50; 1700011O04Rik; CMA1A_HUMAN; CIMAP1A; Outer dense fiber of sperm tails protein 3; Outer dense fiber protein 3; Sperm tail protein SHIPPO 1; Transcript induced in spermiogenesis protein 50; CMA1A_MOUSE;
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CIMAP1A (HGNC:19905)
Function	Outer dense fibers are filamentous structures located on the outside of the axoneme in the midpiece and principal piece of the mammalian sperm tail. May help to maintain the passive elastic structures and elastic recoil of the sperm tail.
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q920N1}. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:Q920N1}. Note=Expressed in the cytoplasmic lobe of spermatids. {ECO:0000250|UniProtKB:Q920N1}
Tissue Location	Testis-specific. {ECO:0000269|PubMed:11870087, ECO:0000269|Ref.2}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.