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DZIP1 Rabbit pAb

Catalog # AP98746

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q86YF9
Other Accession	Q86YF9
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	98664
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DZIP1
Epitope Specificity	21-120/867
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 DZIP C2H2-type zinc-finger protein family. Contains 1 C2H2-type zinc finger.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	DZIP1 (DAZ interacting protein 1) is also known as DZIP or DZIP2 and is a 867 amino acid protein which is expressed as three isoforms, designated DZIPb, DZIPt1 and DZIPt2. DZIP1 is localized to testis, oocytes, ovary and fetal brain, as well as in embryonic stem cells and germ cells. In testis, DZIP1 is localized to the nucleus and also shows some cytoplasmic distribution in spermatogonia. DZIP1 belongs to the C2H2-type zinc-finger protein family, and, characteristc of the C2H2-type zinc-finger protein family, DZIP1 contains one C2H2-type zinc-finger region through which it is thought to interact with DAZ, an interaction that promotes spermiogenesis. DZIP1 expression is not found in those afflicted with Sertoli cell-only syndrome (characterized by the absence of germ cells in the testis), suggesting that the lack of DZIP1 may be involved in the pathogenesis of Sertoli cell-only syndrome-induced male sterility.

Additional Information

Gene ID	22873
Other Names	DZIP; DZIPt1; MMVP3; MVP3; SPGF47; DZIP1_HUMAN; DZIP1; DAZ-interacting protein 1/2; DAZ-interacting zinc finger protein 1; DZIP2; KIAA0996; DAZ interacting zinc finger protein 1; DAZ interacting protein 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	DZIP1 (HGNC:20908)
Synonyms	DZIP, DZIP2, KIAA0996
Function	Molecular adapter that recruits protein complexes required for cilium assembly and function to the cilium basal body (PubMed:19852954, PubMed:23955340, PubMed:27979967, PubMed:32051257). At the exit of mitosis, localizes to the basal body and ciliary base of the forming primary cilium where it recruits and activates RAB8A to direct vesicle-mediated transport of proteins to the cilium (By similarity). Also recruits the BBSome, a complex involved in cilium biogenesis, by bridging it to PCM1 at the centriolar satellites of the cilium (PubMed:27979967). It is also required for the recruitment to the cilium basal body of the intraflagellar transport (IFT) machinery as well as the ciliary appendage proteins CEP164 and NINEIN (By similarity). Functions as a regulator of Hedgehog signaling both through its role in cilium assembly but also probably through its ability to retain GLI3 within the cytoplasm (By similarity). It is involved in spermatogenesis through its role in organization of the basal body and assembly of the sperm flagellum (PubMed:32051257). Also indirectly involved in heart development through its function in ciliogenesis (PubMed:31118289).
Cellular Location	Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole Nucleus. Nucleus speckle {ECO:0000250|UniProtKB:Q8BMD2}. Cytoplasm. Note=Localizes to the centriole in cells lacking cilia and to the cilium basal body in ciliated cells (PubMed:19852954). At the exit of mitosis, when the primary cilium is reassembled in daughter cells, localizes at the mother centriole that acts as the basal body of the assembling primary cilium and also accumulates at the ciliary base that constitutes a diffusion barrier for ciliary proteins (By similarity). {ECO:0000250|UniProtKB:Q8BMD2, ECO:0000269|PubMed:19852954}
Tissue Location	Predominantly expressed in testis (at protein level) (PubMed:15081113, PubMed:32051257). Also expressed in fetal brain, adult oocytes and ovary (PubMed:15081113). Expressed in undifferentiated ES cells (PubMed:15081113). In testis, it is specifically expressed in germ cells (at protein level) (PubMed:15081113, PubMed:32051257). Expressed in mature germ cells and secondary spermatocytes, while it is weakly or not expressed in primary spermatocytes (PubMed:15081113).

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