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SPAG4L/SRG4 Rabbit pAb

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Catalog # AP54769

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8TC36
Reactivity	Rat, Mouse
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43081
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TSARG4
Epitope Specificity	161-275/379
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Testis and spermatogenesis related gene 4 may play a role in the development of cryptorchidism, the failure of the testis to descend from the abdomen into the scrotum [RGD] [TISSUE SPECIFICITY] Testis.

Additional Information

Gene ID	140732
Other Names	SUN domain-containing protein 5, Sad1 and UNC84 domain-containing protein 5, Sperm-associated antigen 4-like protein, Testis and spermatogenesis-related gene 4 protein, SUN5, SPAG4L, TSARG4
Dilution	WB=1:500-2000,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

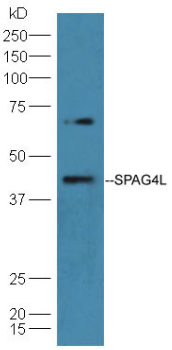
Name	SUN5
Synonyms	SPAG4L, TSARG4

Function	Required for male fertility (PubMed: 38870534). Plays an essential role in maintenance of sperm head-to-tail attachment during late stages of spermiogenesis, via promoting secure attachment of the nuclear envelope to the flagellum coupling apparatus (Probable) (PubMed:38870534). Component of the LMNB1/SUN5/SEPT12 bridge that connects the sperm proximal centriole to the implantation fossa, the bridge functions to prevent detachment of the proximal centriole from the posterior nucleus during spermiogenesis (PubMed:38870534). Required for localization of SEPT12 at the implantation fossa of sperm cells during spermiogenesis (By similarity).
Cellular Location	Nucleus inner membrane; Single-pass membrane protein {ECO:0000250|UniProtKB:Q9DA32}. Golgi apparatus {ECO:0000250|UniProtKB:Q9DA32}. Note=During spermiogenesis, traffics through the Golgi apparatus before reaching the round spermatid inner membrane of the nuclear envelope and later migrates to the coupling apparatus of the sperm during sperm head elongation and differentiation. Expressed at the sperm implantation fossa in spermatids during spermiogenesis. In mature spermatozoa, is localized to the coupling apparatus of the sperm head and tail in the implementation fossa (By similarity). Expressed at the neck region in mature sperm (By similarity). {ECO:0000250|UniProtKB:Q9DA32, ECO:0000305|PubMed:27640305}
Tissue Location	Sperm (at protein level) (PubMed:27640305). Widely expressed (PubMed:12621555). Conflictingly shown to be specifically expressed in testis (PubMed:21711156).

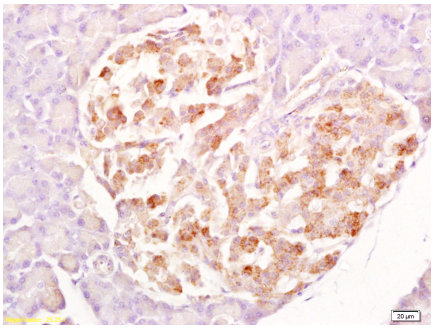
Background

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Images



Sample:Brain(Mouse) Lysate at 30 ug
Primary: Anti-SPAG4L (AP54769) at 1:300 dilution;
Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G-HRP) at 1: 5000 dilution;
Predicted band size : 42 kD
Observed band size : 42 kD



Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-SRG4/TSARG4 Polyclonal Antibody, Unconjugated(AP54769) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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