Anti-SPESP1 antibody, rabbit serum

Product code	73-065
Size	100 µl
Storage	Store 4℃ for short term For long term storage store at -20℃. Aliquot to avoid repeated freezing and thawing.
Concentration	N/A
Buffer	0.1% sodium azide
Purity	Rabbit antiserum
Immunogen	Synthetic peptide corresponding to mouse SPESP1, MYGSNVFPEGRTSD (311-325 amino acids), conjugated with KLH
Isotype	Rabbit IgG
Reactivity	Mouse. Not tested with other species.
Special notes	Validation: KO mouse
Application	1. Western blotting (1/500~1/1,000 dilution) 2. Immunofluorescence staining (1/100~1/500)
Background	The disruption of Spesp1 was shown to cause an aberrant distribution of various sperm proteins. SPESP1 is necessary to produce the fully 'fusion competent' sperm. Molecular mass: 44,702 with 399 amino acids. N-Glycosylated. N-terminal signal peptide (1-19) is removed in mature protein.
Data Link	UniProtKB Q9D5A0 Mouse SPESP1

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 73-065 Anti-SPESP1 antibody, rabbit serum

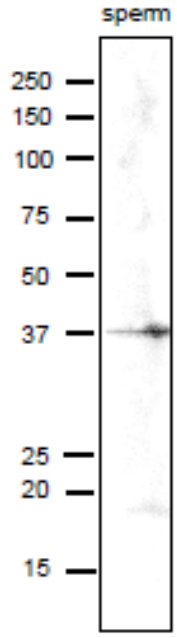

Fig. 1. Identification of SPESP1 protein in lysate of mouse sperm by western blotting with anti-SPESP1 antibody. Mouse sperm was lyzed in lysis buffer containing 1% Triton-X100 and extracts were prepared as supernatants of lysates after centrifugation. Proteins in the lysate were separated on SDS-PAGE (10~20% gradient gel) ,electro-blotted to PVDF membrane and reacted with anti-SPESP1 antibody at 1/1,000 dilution. As the second antibody, anti-rabbit IgG antibody conjugated with HRP (Abcam; ab97051) was used at 1/10,000

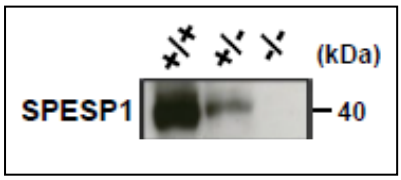

Fig.2 Dose dependent expression of SPESP1 protein in wild-type (+/+), heretoallelic (+/-) and knock-out (-/-) mouse sperm..

Primary antibody was used at 1/500 dilution and 2nd antibody was at 1/10,000.

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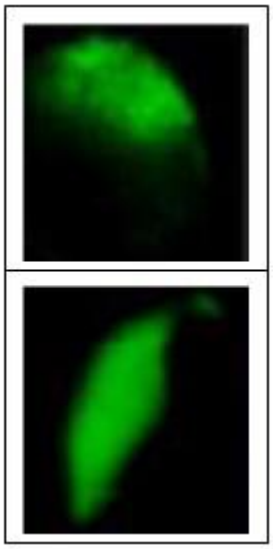

Fig.3. Immunofluorescence staining of mouse SPESP1 with anti-SPESP1 antibody.

A. Round spermatid

B. Epididymal sperm

As secondary antibody, Alexa Fluor 488 conjugated anti-rabbit IgG antibody was used.

Reference: This antibody was described and used in the following publication.

1. Fujihara Y. et al. (2010) Sperm equatorial segment protein 1, SPESP1, is required for fully fertile sperm in mouse. J Cell Sci. 123:1531-6. **WB, IF.** Free access.

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