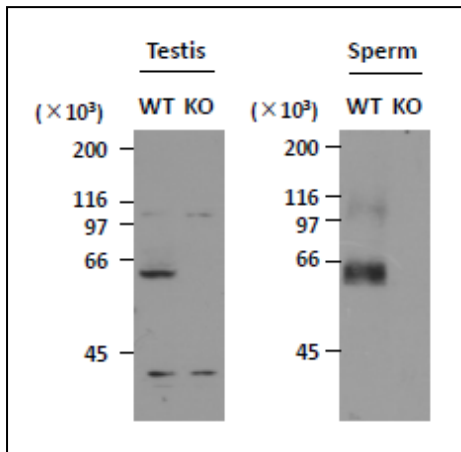


## Anti-Slc22a14 antibody, rabbit polyclonal

<b>Product code</b>	73-067
<b>Size</b>	50 µg
<b>Storage</b>	-20°C
<b>Concentration</b>	1.0 mg/ml
<b>Buffer</b>	PBS- with 50% glycerol and 0.09 % sodium azide
<b>Purity</b>	Affinity purified with immunogen.
<b>Immunogen</b>	Synthetic peptide corresponding to mouse Slc22a14 protein aa 615-629, PKMDLPVQSLKAQPP, conjugated with KLH.
<b>Isotype</b>	Rabbit IgG
<b>Reactivity</b>	Mouse. Does not react with human
<b>Special notes</b>	Validation: Knock-out mouse
<b>Application</b>	<ol style="list-style-type: none"> <li>1. Western blotting (1-2 µg/ml)</li> <li>2. Immunofluorescence staining (10 µg/ml)</li> <li>3. Immunohistochemistry-Paraffin (10 µg/ml)</li> </ol>
<b>Background</b>	<p>Solute carrier 22a14 (Slc22a14) is a spermatogenesis-associated transmembrane protein and crucial for sperm motility and male fertility. It plays a pivotal role in normal flagellar structure, motility and fertility in mouse spermatozoa.</p> <p>Molecular mass: 71,009 with 629 amino acids.</p>
<b>Data Link</b>	UniProtKB <a href="#">Q497L9</a> (mouse), Entrez Gene <a href="#">382113</a> (mouse)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

**Data Images:** 73-067 Anti-Slc22a14 antibody, rabbit polyclonal

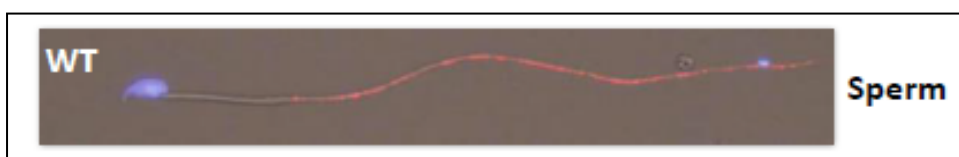


**Fig.1. Identification of Slc22a14 protein in lysates of mouse testis and sperm by western blotting with this antibody.**

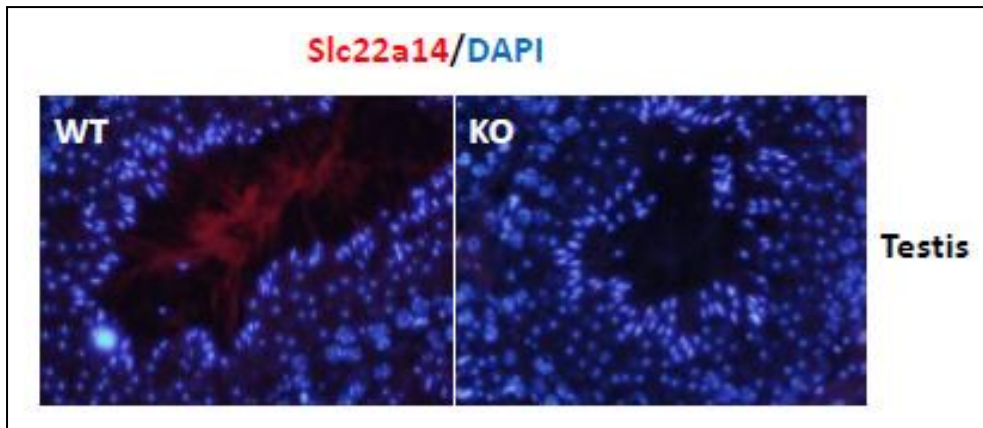
The primary antibody was used at 1 ug/ml.

WT: Wild-type mouse

KO: Knock-out mouse



**Fig.2 Immunofluorescence staining of Slc22a14 protein in mouse spermatozoa from cauda epididymis.** Anti-Slc22a14 antibody was used at 10µg/ml (red). Nucleus was stained with DAPI (blue). Slc22a14 is predominantly localised to the principal piece



**Fig.3 Immunohistological staining of Slc22a14 protein in mouse epididymis.**

The anti-Slc22a14 antibody was used at 10 µg/ml (red). Nuclei were stained with DAPI (blue). Samples are paraffin embedded section.

WT: Wild-type mouse

KO: Knock-out mouse.

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

1. Maruyama S. et al (2016). A critical role of solute carrier 22a14 in sperm motility and male fertility in mice. [Sci Rep.](https://doi.org/10.1038/srep36468) 6:36468. doi: 10.1038/srep36468. PMID:[PMC5095606](https://pubmed.ncbi.nlm.nih.gov/26911111/) **WB, IF, IHC-P (mouse)**