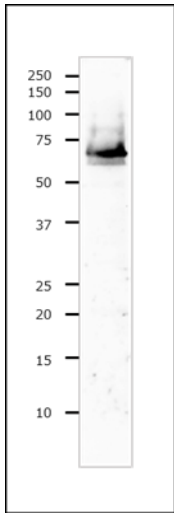


## Anti-Tsga8 / Halap-X antibody, rabbit polyclonal

<b>Product code</b>	73-073
<b>Size</b>	100 µg
<b>Storage</b>	-20°C
<b>Concentration</b>	1.0 mg/ml
<b>Buffer</b>	PBS <sup>-</sup> with 50% glycerol
<b>Purity</b>	Purified IgG fraction with protein A from rabbit antiserum
<b>Immunogen</b>	Purified GST fusion protein of mouse Tsga8 (72aa-238aa) expressed in <i>E.coli</i> .
<b>Isotype</b>	Rabbit IgG
<b>Reactivity</b>	mouse
<b>Special notes</b>	
<b>Application</b>	1. Western blotting (1-10µg/ml) 2. Immunofluorescence staining (1-50µg/ml)
<b>Background</b>	<p>Testis-specific gene A8 (Tsga8) protein plays an essential role in spermatid morphogenesis. Tsga8 specifically is expressed in testis. Loss of Tsga8 in mice leads to male infertility associated with abnormal chromosomal distribution in round spermatids, malformation of elongating spermatid heads and spermiation failure. Tsga8 depletion leads to dysregulation of thousands of genes, including the X-chromosome genes that are reactivated in spermatids, and insufficient nuclear condensation accompanied by reductions of TNP1 and PRM1, key factors for histone-to-protamine transition.</p> <p><b>Molecular mass:</b> Mouse; 22.8 kDa. detected 55 kDa in mouse testis by WB.</p>
<b>Data Link</b>	UniPlotKB <a href="#">Q9JJL0</a> (TSGA8_MOUSE)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

**Data Images:** 73-073 Anti- Tsga8/Halap-X antibody, rabbit polyclonal



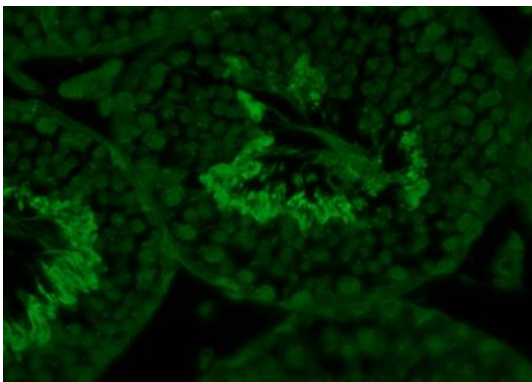
**Fig.1 Western Blot of Tsga8 protein**

Applied sample; 50µg of mouse testis whole lysate.

Primary antibody; 1µg/ml of anti- Tsga8 antibody

Secondary antibody; 1/10,000 dilution of goat anti-rabbit IgG antibody HRP-conjugated, ab97051)

Molecular mass of Tsga8; 55 kDa



**Fig.2 Immunohistochemistry for Tsga8 protein in mouse testis tissue**

The anti Tsga8 antibody was used at 50µg/ml (Alexa Fluor 488).

Samples were paraffin embedded sections.

**Reference:** This antibody has been used in the following publication.

1. Uchida K, *et al.* Cloning and Characterization of a Complementary Deoxyribonucleic Acid Encoding Haploid-Specific Alanine-Rich Acidic Protein Located on Chromosome-X. *Biology of Reproduction*, Vol.63, 993-999 (2000). PMID: [10993819](https://pubmed.ncbi.nlm.nih.gov/10993819/). **WB, IF**
2. Kobayashi Y, *et al.* Tsga8 is required for spermatid morphogenesis and male fertility in mice. *Development*, Vol.148(8):dev196212. (2021). PMID: [33766931](https://pubmed.ncbi.nlm.nih.gov/33766931/). **IF**