

Anti-mouse ADAM1B antibody, rat monoclonal (#57)

73-010 100 µg

Storage: Shipped at 4°C and store at -20°C..**Reactivity:** Mouse.**Applications:**

1. Immunocytochemistry (1/100 – 1/300)
2. Immunohistochemistry (1/100~1/300) paraffin-embedded section.

Not suitable for western blotting.

Recommend to use clone #158 (BioAcademia 73-007) for western blotting.

Immunogen: Mouse sperm**Form:** Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol, filter-sterilized.
Azide- and carrier-free.**Key words:** Acrosome reaction, Membrane fusion, Protein trafficking, IZUMO1, Sperm-egg fusion**Function:** May play a role in spermatogenesis, sperm maturation and fertilization..**Molecular mass:** 89,369 with 806 amino acids. N-terminal signal peptide with 33 amino acids from this protein is processed to give propeptide, which may undergo further processing.**Database Links:** UniProtKB [Q8R534](#) (mouse ADAM1b)**Reference:** This antibody was described in and used in the following publications.

Ikawa M. et al. Calsperin is a testis-specific chaperone required for sperm fertility.

[J Biol Chem.](#) 2011 ;286:5639-46. **IF**

Satouh Y., et al (2012) Visualization of the moment of mouse sperm-egg

fusion and dynamic localization of IZUMO1. *J. Cell Science* 125, 4985–4990. PubMed[22946049](#). **IF**.**Fig.1 Immunofluorescent staining of ADAM1B in sperm by using anti-ADAM1B antibody.**

.Fresh sperm collected from the epididymis of mice were fixed in 4% paraformaldehyde and then immunostained with the anti-ADAM1B antibody (#57) at 1/300 dilution.

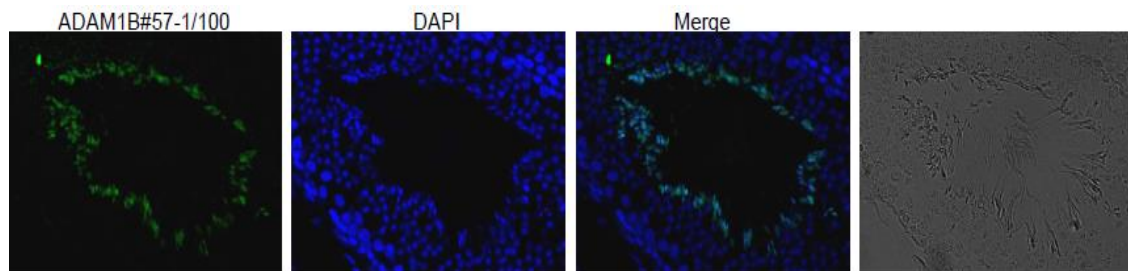


Fig.2. Immunohistological staining of ADAM1B in mouse testis using anti-ADAM1B antibody (#57). A section of formalin fixed and paraffin embedded mouse testis was treated with the anti-ADAM1B antibody at 1/100 dilution after deparaffization and antigen retrieval. The 2nd antibody, anti-rat IgG conjugated with Alexa Fluor 488 (Abcam) was used at 1/1,000 dilution. DNA was stained with DAPI and the merged image was shown (Merge). The bright field microscopic picture of the same region was shown on the right.