

## Anti-SLA (haploid sperm cell-specific antigen) antibody, clone TRA54

Catalog # 73-001      100 µg

Many transcripts for proteins specifically expressed in haploid germ cells are synthesized in the spermatogenesis. A monoclonal antibody TRA54 recognizes specific organelles in germ cell cytoplasm from spermatocytes to spermatids (1, 2). Western blots using TRA54 revealed broad bands with 85 kDa, 190 kDa and >200 kDa in testis (Fig. 1). This antibody can be used for immunohistochemical staining of testicular tissues (1, 3).

The hybridoma producing TRA54 was obtained from the immunization of a rat with cell lysates of adult mouse testes by the group of Prof. Yoshitake Nishimune of Osaka University. This product is purified from the ascitic fluid of nude mice carrying the hybridoma clone TRA54.

### Applications

1. Western blot (~1 µg/ml) (Ref.1, 2)
2. Immunohistochemical staining (Ref. 1, 2, 3)
3. Immuno-electron microscopy (Ref. 3)

Not tested in other applications

### Specification

Form: Purified rat IgM (1 mg/ml) in PBS(-), 50% glycerol

Reactivity: Mouse and rat. Not tested for other species.

Storage: ship 4°C and store at -20°C.

**References:** Antibody TRA54 has been used in the following publications.

1. Pereira LA *et al* "Characterization and expression of a stage specific antigen by monoclonal antibody TRA 54 in testicular germ cell" *Int J Androl* 21: 34-40 (1998) PMID: [9639150](#)
2. Arrotéia KF *et al* "Identification and characterization of an antigen recognized by monoclonal antibody TRA 54 in mouse epididymis and vas deferens" *J Androl* 25: 914-921 (2004) PMID: [15477363](#)
3. Ventelä S *et al* "Intercellular organelle traffic through cytoplasmic bridges in early spermatids of the rat: mechanisms of haploid gene product sharing" *Mol Biol Cell* 14: 2768-2780 (2003) PMID: [12857863](#)

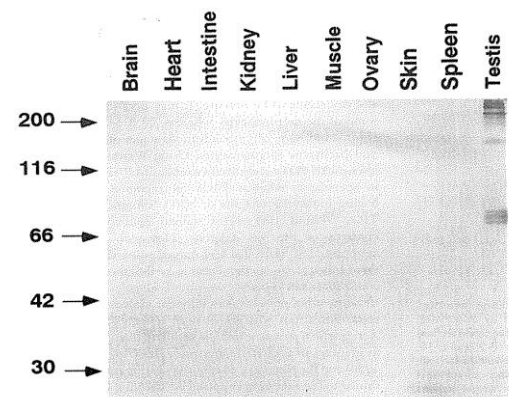


Fig. 1. Western blot analysis of various mouse tissues with TRA54 antibody. The antibody was diluted 5,000-fold before use.

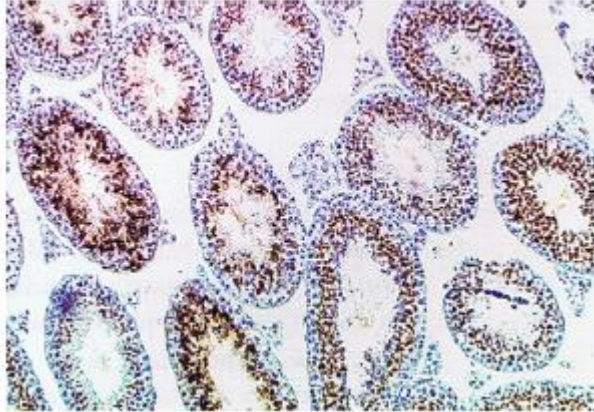


Fig. 2. Immunohistochemical staining of mouse testicular cross-section with TRA54 antibody. Testis from C57BL/6 adult mouse was fixed in Bouin's solution, followed by paraffin embedding and sectioning. After deparaffinized, sections were treated with normal goat serum, reacted with TRA54 antibody and incubated with biotinylated sheep anti-rat Ig antibody and biotin peroxidase/avidin, followed by incubation with hydrogen peroxide and diaminobenzidine.