

## Haploid sperm cell-specific antigen antibody [TRA54]

## Cat. No. GTX00716

|              |  |
|--------------|--|
| Host         | Rat                                    |
| Clonality    | Monoclonal                             |
| Isotype      | IgM                                    |
| Applications | WB, ICC/IF, IHC-P, IHC-Fr, IP, Dot, EM |
| Reactivity   | Mouse, Rat                             |

References ( 3 )

Package

100 µg

## PRODUCT

## Summary

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. Western blots using TRA54 revealed broad bands with 85 kD, 190 kD and >200 kDa in testis probably due to alternative splicing and/or post-translational modification. The molecular size diversity is due to the difference in glycosylation.

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution |
|--------------------|----------------------|
| WB                 | ~1 µg/ml             |
| ICC/IF             | Assay dependent      |
| IHC-P              | Assay dependent      |
| IHC-Fr             | Assay dependent      |
| IP                 | Assay dependent      |
| Dot                | Assay dependent      |
| EM                 | Assay dependent      |

Not tested in other applications.

## Properties

|               |  |
|---------------|--|
| Form          | Liquid   |
| Buffer        | PBS, 50% Glycerol  |
| Preservative  | No preservatives   |
| Storage       | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |
| Concentration | 1 mg/ml (Please refer to the vial label for the specific concentration.)   |
| Immunogen     | adult mouse testis   |

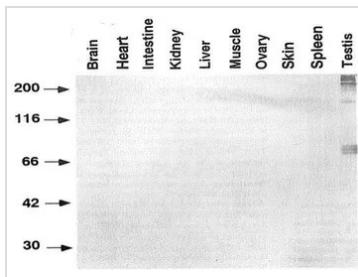


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|                     |   |
|---------------------|---|
| <b>Purification</b> | Purified IgM<br>From tissue culture supernatant   |
| <b>Conjugation</b>  | Unconjugated  |
| <b>Note</b>         | For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. |

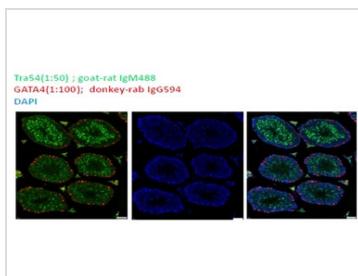
## DATA IMAGES

**GTX00716 WB Image**

WB analysis of various mouse tissue samples using GTX00716 Haploid sperm cell-specific antigen antibody [TRA54].

Dilution : 1 µg/ml

Loading : 100 µg

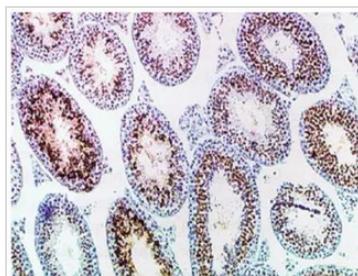
**GTX00716 IHC-P Image**

IHC-P analysis of mouse testis tissue section (8-month) using GTX00716 Haploid sperm cell-specific antigen antibody [TRA54]. Anti-GATA antibody stains nuclei of Sertoli cells in seminiferous tubule while anti-TRA54 antibody stains reproductive cells.

Dilution : 1:50

Antigen retrieval : 10 mM citrate buffer (pH 6.0) for 15min

Fixation : 4% PFA

**GTX00716 IHC-P Image**

IHC-P analysis of mouse testis tissue section (C57BL/6) using GTX00716 Haploid sperm cell-specific antigen antibody [TRA54].

Fixation : Bouin's solution



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