



## CD52 (T-15): sc-27555

### BACKGROUND

CD52 is a glycosylphosphatidylinositol (GPI)-linked surface antigen present at high levels on epithelial cells lining the male reproductive tract, thymocytes, lymphocytes, monocytes, and macrophages, and at variable levels on lymphoid malignancies. During sperm maturation, spermatozoa passing through the genital tract acquire CD52 that is shed into seminal plasma from the epithelial cell lining.

### REFERENCES

1. Yeung, C.H., Cooper, T.G. and Nieschlag, E. 1997. Human epididymal secreted protein CD52 on ejaculated spermatozoa: correlations with semen characteristics and the effect of its antibody. *Mol. Hum. Reprod.* 3: 1045-1051.
2. Domagala, A. and Kurpisz, M. 2001. CD52 antigen— a review. *Med. Sci. Monit.* 7: 325-331.
3. LocusLink Report (LocusID: 1043). <http://www.ncbi.nlm.nih.gov/LocusLink/>
4. Shao, N., Xue, J., Guo, Z. 2003. Chemical synthesis of CD52 glycopeptides containing the acid-labile fucosyl linkage. *J Org Chem.* 68: 9003-9011.
5. Kumar S, Kimlinger, T.K., Lust, J.A., Donovan, K., Witzig, T.E. 2003. Expression of CD52 on plasma cells in plasma cell proliferative disorders. *Blood* 102: 1075-1077.
6. Hasegawa, A., Sawai, H., Tsubamoto, H., Hori, M., Isojima, S., Koyama, K. 2004. Possible presence of O-linked carbohydrate in the human male reproductive tract CD52. *J Reprod Immunol.* 62: 91-100.

### SOURCE

CD52 (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CD52 of mouse origin.

### PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27555 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### APPLICATIONS

CD52 (T-15) is recommended for detection of precursor and mature CD52 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CD52 siRNA (m): sc-44667.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.