

Mouse Sperm Protein sp56 Monoclonal Antibodies

ORDERING INFORMATION

Catalog No.	Clone No.	MAb Subtype	Size
55101	7C5	IgG1	100ug
55102	5F12	IgG1	100ug
55103	4B2	IgG1	100ug
55104	7H12	IgG1	100ug

Format: Protein G-purified antibody in PBS, pH 7.4.

BACKGROUND

Mouse sperm recognize and bind to ZP3, one of three glycoproteins in the egg's zona pellucida. Mouse Sperm protein sp56 has the characteristics expected of the sperm protein responsible for recognition of ZP3. Primary sequence data indicates that sp56 is a member of a superfamily of protein receptors. Expression of sp56 is restricted to mouse spermatids and is a peripheral membrane protein located on plasma membrane overlying the sperm's acrosome. Native sp56 is expressed as a homomultimer.

SPECIFICATION SUMMARY

Antigen: Mixture of native and formaldehyde-zinc fixed sperm purified through a Percoll gradient.

Host Species: Mouse

Gene ID: 22789

Accession No.: NP_033607

Specificity: These antibodies specifically recognize mouse sperm protein sp56. They will react with native or denatured, non-reduced sp56 but not with denatured, reduced sp56. These antibodies do not cross-react with human sperm. Relative antibody titers for antibody binding to solid phase sp56: 55101 = 66pM, 55102 = 4nM, 55103 = 29nM, 55104 = 70nM

APPLICATIONS

These antibodies may be used in immunohistochemistry on zinc-formaldehyde fixed, paraffin-embedded mouse testes to localize sp56 on mouse sperm and in immunoblots or ELISA to detect sp56.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

These antibodies are stable for at least on (1) year at -20°C to -70°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

PRODUCT REFERENCES

Cheng A. et al. 1994. Sperm-Egg Recognition in the Mouse: Characterization of sp56, A Sperm Protein Having Specific Affinity for ZP3. J Cell Biol 125: 867-878.

Bookbinder LH et al. 1995. Tissue- and Species-Specific Expression of sp56, a Mouse Sperm Fertilization Protein. Science 269: 86-89.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.