Monoclonal Anti-mouse/rat FSL1 Antibody

Preparation
This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, E. coli-derived, recombinant mouse Follistatin-Like 1 (rmFSL1). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. FSL1, also known as FSTL1, Follistatin-related protein (FRP) and TSC-36, is a secreted protein that contains a Follistatin-like domain, a Kazal-like domain, and a von Willebrand factor C domain. Mouse FSL1 shares 96% amino acid sequence identity with rat FSL1.

Formulation
Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution
Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 0.5 µg/mL.

Storage
Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

Specificity
This antibody was selected for its ability to detect mouse FSL1 in direct ELISAs and immunocytochemistry experiments.

Applications
- Immunocytochemistry - This antibody was used with the appropriate secondary reagents at a concentration of 10 µg/mL in fixed rat PC12 cells. Cells were fixed with 4% paraformaldehyde in PBS at room temperature for 20 minutes, then blocked with 0.1% Triton X-100, 1% BSA and 10% normal donkey serum in PBS at room temperature for 45 minutes. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red coupled anti-rat IgG at room temperature in the dark for one hour. Between each step, cells were washed with PBS with 0.1% BSA.

Optimal dilutions should be determined by each laboratory for each application.