



Somatostatin Receptor 2 (SSTR2)

Data Sheet

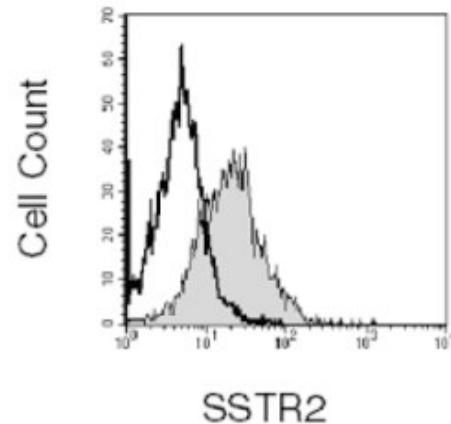
Catalog Number:	MO15109	Host:	Mouse
Product Type:	Protein G Purified, IgG _{2A} Clone: 402038	Species Reactivity:	Human
Immunogen Sequence:	Hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with NS0 cells transfected with human SSTR2 (hSSTR2; aa 1 - 369; Accession # P30874).	Format:	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose
Applications:	Flow Cytometry- 25 µg/mL Immunohistochemistry- 10 µg/mL Immunocytochemistry- 25 µg/mL		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. <i>Avoid repeated freeze-thaw cycles.</i>		

Application Notes

Flow cytometry

This antibody was validated for flow cytometry using MDA-MB-231 cells. For intracellular staining to detect SSTR2, cells must first be fixed and permeabilized with 4% paraformaldehyde and 0.1 % saponin in PBS. Dilute this antibody to 25 µg/mL and add 10 µL of the diluted solution to 1 - 5 x 10⁵ cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled monoclonal antibodies may be visualized by adding a secondary developing reagent such as anti-mouse IgG conjugated to a fluorochrome.

Image: MDA-MB-231 cells were stained with anti-SSTR2 (filled histogram) or isotype control antibody (open histogram), followed by APC-conjugated anti-mouse antibody.



Immunocytochemistry

This antibody was used at a concentration of 10 µg/mL to detect SSTR2 in MDA-MB-231 cells. Cells were fixed with PBS containing 4% paraformaldehyde and blocked with PBS containing 10% normal donkey serum, 0.1% Triton X-100, and 1% BSA. After blocking, cells were incubated with diluted primary antibody followed by NL557-coupled anti-mouse IgG in the dark. Between each step, cells were washed with PBS containing BSA.

Immunohistochemistry

This antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect SSTR2 in paraffin-embedded normal human cortex tissue sections.

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Description/Data:

Somatostatin Receptor 2 (SSTR2) is one of five 7-transmembrane G-protein-coupled receptors for somatostatins 14 and 28. Human SSTR2 shares 84% aa identity with mouse SSTR2 within the extracellular domains. Isoform B (357 aa) has an alternate C-terminal cytoplasmic region that is 12 aa shorter than that of isoform A (369 aa, reported as 93 kDa). Both are expressed in brain, stomach, intestinal epithelia, pancreatic islets and kidney tubules. Isoform B is also expressed in parotid, thyroid and bronchial glands.

These SST Receptors function in the regulation of numerous physiological processes such as the secretion of insulin, glucagon and growth hormone as well as cell growth induced by neuronal excitation in both the central and peripheral nervous systems.

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