

Product Name: KD-Validated Somatostatin Receptor 5 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00867

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 39.2kDa

Antigen Information

Gene Name	SSTR5
Alternative Names	SSTR5; Somatostatin Receptor 5; Somatostatin Receptor Type 5; SS-5-R; SST5; Somatostatin Receptor Subtype 5; SS5-R; SS5R
Gene ID	6755.0
SwissProt ID	P35346
Immunogen	A synthesized peptide derived from human SSTR5

Background

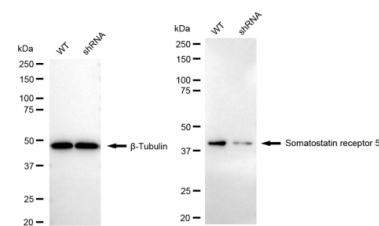
Somatostatin and its related peptide cortistatin exert multiple biological actions on normal and tumoral tissue targets by interacting with somatostatin receptors (SSTRs). The protein encoded by this gene is one of the SSTRs, which is a multi-pass

membrane protein and belongs to the G-protein coupled receptor 1 family. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase, and different regions of this receptor molecule are required for the activation of different signaling pathways. A mutation in this gene results in somatostatin analog resistance. Alternatively spliced transcript variants have been identified in this gene.[provided by RefSeq, Feb 2010]

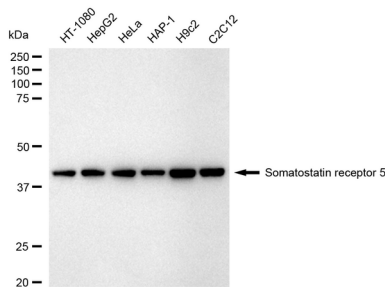
Research Area

Neuroscience,Signal Transduction

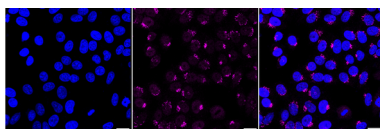
Image Data



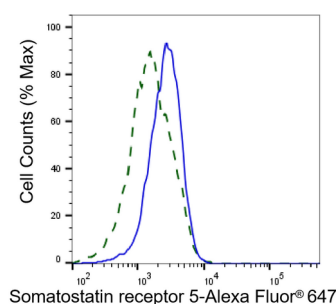
Western blotting analysis using Somatostatin receptor 5 antibody (KVA00867). Somatostatin receptor 5 expression in wild type (WT) and Somatostatin receptor 5 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Somatostatin receptor 5 antibody (KVA00867, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



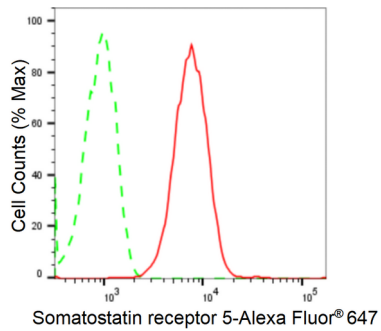
Western blotting analysis using somatostatin receptor 5 antibody (KVA00867). Total cell lysates (5 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with somatostatin receptor 5 antibody (KVA00867, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Somatostatin receptor 5 antibody (KVA00867, 1:1,000). Nuclei were stained blue with DAPI; Somatostatin receptor 5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Validation of Somatostatin receptor 5 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Somatostatin receptor 5 antibody (KVA00867, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Somatostatin receptor 5 expression in HepG2 cells using Somatostatin receptor 5 antibody (KVA00867, 1:2,000). Green, isotype control; red, Somatostatin receptor 5.