SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Somatostatin Receptor 2 antibody

Catalog Number: SL1138R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Somatostatin Receptor 2
Immunogen:	KLH conjugated synthetic peptide derived from human SSTR2: 211-320/369 <Cytoplasmic>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human (predicted:Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,GuineaPig)
Predicted MW.:	41kDa
Subcellular Location:	The cell membrane
Background:	Somatostatin is a tetradecapeptide that is widely distributed in the body and is one of five receptor subtypes termed SSTr1-. These receptors function in the regulation of numerous phsiological processes such as the secretion of insulin, glucagon and growth hormone as wel as cell growth induced by neuronal excitation in both the central and peripheral nervous systems. Somatostatin receptos are activated via sonatostatin secreted by nerve and endocrine cells. Somatostatin Receptor 2 (SSR2), along with SSR1, is expressed at the highest levels in the stomach and jejunum, cerebrum and kidney, respectively. **Function:** Receptor for somatostatins-14 and -28. This receptor is coupled via pertussis toxin sensitive G proteins to inhibition of adenylyl cyclase. In addition it stimulates phosphotyrosine phosphatase and PLC via pertussis toxin insensitive as well as sensitive G proteins. In RIN-5F cells, this receptor

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	inhibits calcium entry by suppressing voltage dependent calcium-channels. **Subunit:** The C-terminus interacts with SHANK1 PDZ domain. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Cerebrum and kidney. In lesser amounts in jejunum, colon and liver. **Similarity:** Belongs to the G-protein coupled receptor 1 family. **Database links:** **Entrez Gene:** 6752 Human **Entrez Gene:** 20606 Mouse **Entrez Gene:** 54305 Rat Omim: 182452 Human **SwissProt:** P30874 Human **SwissProt:** P30875 Mouse **SwissProt:** P30680 Rat **Unigene:** 514451 Human **Unigene:** 454968 Mouse **Unigene:** 202974 Rat **Unigene:** 9929 Rat SSTR2The expression of this protein plays an important role in the distribution, occurrence, and development of tumours. Currently, it is mainly used in tumour research.

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