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Anti-Somatostatin Receptor 1 Antibody

Catalog # ABO11003

Specification

Anti-Somatostatin Receptor 1 Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P30872
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Somatostatin receptor type 1(SSTR1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Somatostatin Receptor 1 Antibody - Additional Information

Gene ID 6751

Other Names
Somatostatin receptor type 1, SS-1-R, SS1-R, SS1R, SRIF-2, SSTR1

Calculated MW
42686 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Human, Mouse, By Heat

Western blot, 0.1-0.5 µg/ml, Rat, Human, Mouse

Subcellular Localization
Cell membrane; Multi-pass membrane protein.

Tissue Specificity
Fetal kidney, fetal liver, and adult pancreas, brain, lung, jejunum and stomach.

Protein Name
Somatostatin receptor type 1(SS-1-R/SS1-R/SS1R)

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human Somatostatin Receptor 1(361-381aa RAYSVEDFQPENLESGGVFRN), identical to the related rat and mouse sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Somatostatin Receptor 1 Antibody - Protein Information

Name SSTR1

Function
Receptor for somatostatin with higher affinity for somatostatin-14 than -28. This receptor is coupled via pertussis toxin sensitive G proteins to inhibition of adenylyl cyclase. In addition it stimulates phosphotyrosine phosphatase and Na(+)/H(+) exchanger via pertussis toxin insensitive G proteins.

Cellular Location
Cell membrane; Multi-pass membrane protein.

Tissue Location
Fetal kidney, fetal liver, and adult pancreas, brain, lung, jejunum and stomach

Anti-Somatostatin Receptor 1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Somatostatin Receptor 1 Antibody - Images

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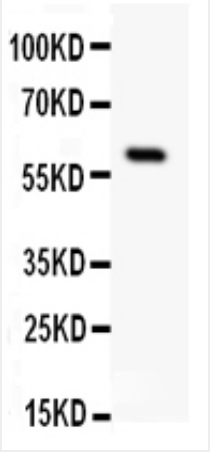
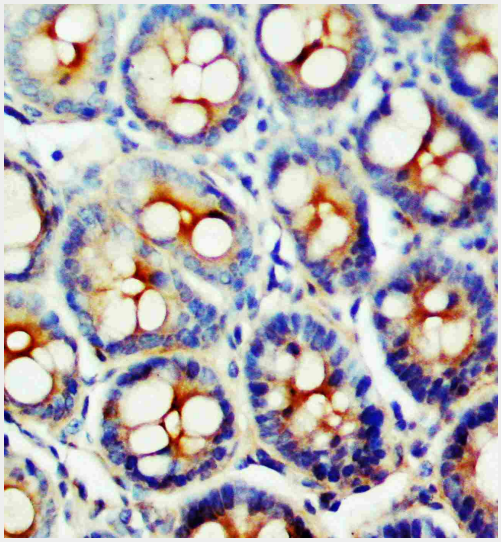


Anti-SSTR1 antibody, ABO11003, Western blottingAll lanes: Anti SSTR1 (ABO11003) at 0.5ug/mlWB: Rat Intestine Tissue Lysate at 50ugPredicted bind size: 43KDObserved bind size: 60KD



Anti-SSTR1 antibody, ABO11003, IHC(P)IHC(P): Rat Intestine Tissue

Anti-Somatostatin Receptor 1 Antibody - Background

SSTR1(Somatostatin receptor type 1) is a protein that in humans is encoded by the SSTR1 gene. The SSTR1 gene is mapped to chromosome 14. Somatostatin acts at many sites to inhibit the release of many hormones and other secretory proteins. The biological effects of somatostatin are probably mediated by a family of G protein-coupled receptors that are expressed in a tissue-specific manner. The encoded protein is a member of the superfamily of somatostatin receptors having seven transmembrane segments, and is expressed in highest levels in jejunum and stomach.