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Datasheet for ABIN3043097

anti-SSTR2 antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	SSTR2
Binding Specificity:	AA 184-198, Middle Region
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SSTR2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Somatostatin receptor type 2(SSTR2) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Somatostatin Receptor 2(184-198aa RSNQWGRSSCTINWP), identical to the related rat and mouse sequences.
Sequence:	RSNQWGRSSC TINWP
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: human, mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Somatostatin receptor type 2(SSTR2) detection. Tested with WB in Human,Mouse,Rat. Gene Name: somatostatin receptor 2 Protein Name: Somatostatin receptor type 2(SS-2-R/SS2-R/SS2R)
Purification:	Immunogen affinity purified.

Target Details

Target:	SSTR2
Alternative Name:	SSTR2 (SSTR2 Products)
Background:	<p>SSTR2(Somatostatin receptor type 2) is a protein that in humans is encoded by the SSTR2 gene. Somatostatin acts at many sites to inhibit the release of many hormones and other secretory proteins. The biologic effects of somatostatin are probably mediated by a family of G protein-coupled receptors that are expressed in a tissue-specific manner. SSTR2 is a member of the superfamily of receptors having seven transmembrane segments and is expressed in highest levels in cerebrum and kidney. Stable SSTR2 transfection of human pancreatic cells, which do not endogenously express SSTR2, inhibits cell proliferation, tumorigenicity, and metastasis. These effects occur as a consequence of an autocrine SSTR2-dependent loop, whereby SSTR2 induces expression of its own ligand, somatostatin.SSTR2 mRNA was variably expressed in all neuroblastoma tumors with a relevant reduction in the more advanced stage.</p> <p>Synonyms: Somatostatin receptor type 2 antibody SRIF-1 antibody SRIF1 antibody SS-2-R antibody SS2-R antibody SS2R antibody SSR2_HUMAN antibody SST2 antibody SSTR2 antibody</p>
UniProt:	P30874

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, 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.
Expiry Date:	12 months

Publications

Product cited in:	<p>Zhang, Yan, Xu, Fang, Zhang, Zhang, Wu, Kong, Huang: "The recovery trajectory of adolescent social defeat stress-induced behavioral, (1)H-MRS metabolites and myelin changes in Balb/c mice." in: Scientific reports, Vol. 6, pp. 27906, (2018) (PubMed).</p> <p>Sun, Hu, Xiong, Tu, Zhao, Chen, Song, Ye: "Enhanced expression of stem cell markers and drug resistance in sphere-forming non-small cell lung cancer cells." in: International journal of clinical and experimental pathology, Vol. 8, Issue 6, pp. 6287-300, (2016) (PubMed).</p> <p>Yang, Gao, Zhang, Fang, Wu, Xu, Huang: "Changes in proinflammatory cytokines and white matter in chronically stressed rats." in: Neuropsychiatric disease and treatment, Vol. 11, pp. 597-607, (2015) (PubMed).</p>
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Western Blotting

Image 1. Anti- SSTR2 antibody, Western blotting All lanes:
Anti SSTR2 at 0.5ug/ml WB: Rat Lung Tissue Lysate at
50ug Predicted bind size: 41KD Observed bind size: 55KD