

Store at
-20°C

#11830

SSTR1 Antibody

www.cellsignal.com

100 µl (10 western blots)

Support: 877-678-TECH (8324)
info@cellsignal.comOrders: 877-616-CELL (2355)
orders@cellsignal.comEntrez-Gene ID #6751
UniProt ID #P30872

rev. 06/18/14

For Research Use Only. Not For Use In Diagnostic Procedures.**Applications**
W
Endogenous**Species Cross-Reactivity***
R, (H, M, Mk)**Molecular Wt.**
40, 80 kDa**Isotype**
Rabbit**

Background: Somatostatin receptors are part of the super family of G protein-coupled receptors. Five genes encoding six different somatostatin receptor subtypes (SSTR1, SSTR2A, SSTR2B, SSTR3, SSTR4, and SSTR5) have been cloned (1). Somatostatin receptors are activated by somatostatin, a neuro-peptide that acts as a neurotransmitter in the brain that regulates hormone secretion from endocrine tissues (2). Somatostatin receptors are found to be highly expressed on human neuroen-docrine tumors (3).

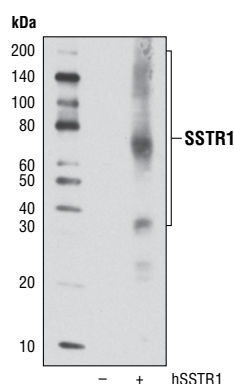
mRNA expression data and immunohistochemical studies indi-cate high expression of SSTR1 in pituitary and gastroenteropan-creatic tumor, renal, colorectal and breast cancer, meningioma, glioma neuroblastoma, and pheochromocytoma (3).

Specificity/Sensitivity: SSTR1 Antibody recognizes endog-enous levels of total SSTR1 protein.

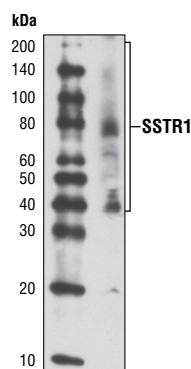
Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide correspond-ing to residues surrounding Val365 of human SSTR1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Patel, Y.C. (1999) *Front Neuroendocrinol* 20, 157-98.
- (2) Tulipano, G. and Schulz, S. (2007) *Eur J Endocrinol* 156 Suppl 1, S3-11.
- (3) Hofland, L.J. and Lamberts, S.W. (2003) *Endocr Rev* 24, 28-47.



Western blot analysis of extracts from COS-7 cells, mock transfected (-) or transfected with a construct expressing human SSTR1 (hSSTR1; +), using SSTR1 Antibody. Multiple bands are thought to be GPCR dimers and/or oligomers (Rozenfeld, R. and Devi, L.A. (2010) *Handbook of Cell Signaling*, 2nd edition, 185-94). Smearing is thought to be due to the addition of N-linked glycosylations at specific NXS/T motifs (Dong, C. et al. (2007) *Biochem Biophys Acta* 1768, 853-70).



Western blot analysis of extract from PC-12 cells using SSTR1 Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.