Datasheet for ABIN2777144

anti-Stanniocalcin 1 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	Stanniocalcin 1 (STC1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Horse, Dog, Pig, Cow, Guinea Pig, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Stanniocalcin 1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human STC1
Sequence:	MLQNSAVLLV LVISASATHE AEQNDSVSPR KSRVAAQNSA EVVRCLNSAL
Predicted Reactivity:	Cow: 93%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 93%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against STC1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Stanniocalcin 1 (STC1)

Target Details

Alternative Name:	STC1 (STC1 Products)
Background:	STC1 is a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. It contains 11 conserved cysteine residues and is phosphorylated by protein kinase C exclusively on its serine residues. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Overexpression of human stanniocalcin 1 in mice produces high serum phosphate levels, dwarfism, and increased metabolic rate.This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The gene contains a 5' UTR rich in CAG trinucleotide repeats. The encoded protein contains 11 conserved cysteine residues and is phosphorylated by protein kinase C exclusively on its serine residues. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Overexpression of human stanniocalcin 1 in mice produces high serum phosphate levels, dwarfism, and increased metabolic rate. This gene has altered expression in hepatocellular, ovarian, and breast cancers. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: STC Protein Size: 247
Molecular Weight:	26 kDa
Gene ID:	6781
NCBI Accession:	NM_003155, NP_003146
UniProt:	P52823
Pathways:	Hormone Activity

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 247 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid

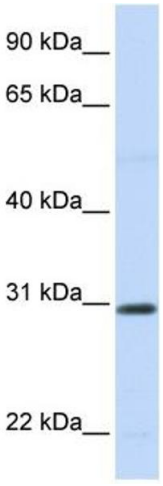
Handling

Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Gao, Xu, Chen, Wang, Wang, Wu, Yuan: "Potential protein toxicity of synthetic pigments: binding of poncean S to human serum albumin." in: **Biophysical journal**, Vol. 94, Issue 3, pp. 906-17, (2008) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-STC1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: 721_B cell lysate There is BioGPS gene expression data showing that STC1 is expressed in 721_B