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Stanniocalcin-2 (STC2) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1443A

Product Information

Application	WB, IHC-P, E
Primary Accession	O76061
Other Accession	O88452
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	33249
Antigen Region	16-46

Additional Information

Gene ID	8614
Other Names	Stanniocalcin-2, STC-2, Stanniocalcin-related protein, STC-related protein, STCRP, STC2
Target/Specificity	This Stanniocalcin-2 (STC2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 16-46 amino acids from the N-terminal region of human Stanniocalcin-2 (STC2).
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Stanniocalcin-2 (STC2) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STC2
Function	Has an anti-hypocalcemic action on calcium and phosphate homeostasis.
Cellular Location	Secreted.

Tissue Location	Expressed in a variety of tissues including muscle, heart, pancreas, kidney, spleen, prostate, small intestine, colon and peripheral blood leukocytes

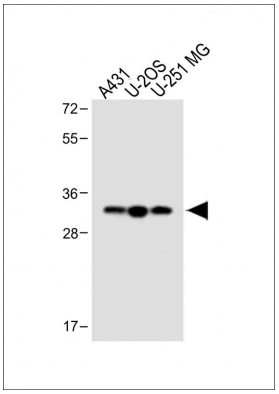
Background

STC2 is a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The encoded protein has 10 of its 15 cysteine residues conserved among stanniocalcin family members and is phosphorylated by casein kinase 2 exclusively on its serine residues. Its C-terminus contains a cluster of histidine residues which may interact with metal ions. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Constitutive overexpression of human stanniocalcin 2 in mice resulted in pre- and postnatal growth restriction, reduced bone and skeletal muscle growth, and organomegaly. Expression is induced by estrogen and altered in some breast cancers.

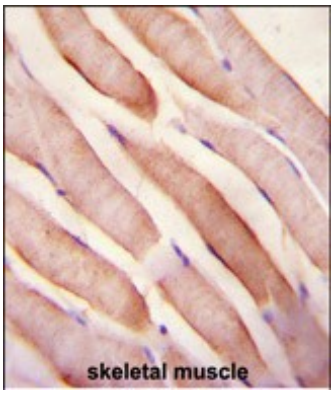
References

Ishibashi, K., et al., Biochem. Biophys. Res. Commun. 250(2):252-258 (1998).
DiMattia, G.E., et al., Mol. Cell. Endocrinol. 146 (1-2), 137-140 (1998).
Chang, A.C., et al., Mol. Cell. Endocrinol. 141 (1-2), 95-99 (1998).

Images



All lanes : Anti-Stanniocalcin-2 (STC2) Antibody (N-term) at 1:500 dilution Lane 1: A431 whole cell lysate Lane 2: U-2OS whole cell lysate Lane 3: U-251 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Stanniocalcin-2 (STC2) Antibody (N-term) (Cat. #AP1443a)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Stanniocalcin-2 (STC2) Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.