STC2 rabbit monoclonal antibody

Catalog # H00008614-K

ocification

Size 100 ug x up to 3

Specification	
Product Description	Rabbit monoclonal antibody raised against a human STC2 peptide using ARM Technology.
Immunogen	A synthetic peptide of human STC2 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
lsotype	lgG
Quality Control Testing	Antibody reactive against human STC2 peptide by ELISA and mammalian transfected lysate by Wes tern Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	 Customer may provide cell or tissue lysate for antibody screening. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding F(ab)₂, lgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

• Western Blot (Transfected lysate)

Protocol Download

• ELISA

Gene Info — STC2	
Entrez GenelD	<u>8614</u>
GeneBank Accession#	STC2
Gene Name	STC2
Gene Alias	STC-2, STCRP
Gene Description	stanniocalcin 2
Omim ID	<u>603665</u>
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety of ti ssues and may have autocrine or paracrine functions. The encoded protein has 10 of its 15 cystei ne residues conserved among stanniocalcin family members and is phosphorylated by casein kin ase 2 exclusively on its serine residues. Its C-terminus contains a cluster of histidine residues whi ch 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. C onstitutive overexpression of human stanniocalcin 2 in mice resulted in pre- and postnatal growth r estriction, reduced bone and skeletal muscle growth, and organomegaly. Expression of this gene is induced by estrogen and altered in some breast cancers. [provided by RefSeq
Other Designations	STC-related protein stanniocalcin-related protein

Disease

- Amyotrophic lateral sclerosis
- Anoxia
- Genetic Predisposition to Disease
- <u>Hyperparathyroidism</u>