

STC2 elisa kit

Mouse STC2 PicoKine ELISA Kit

CATALOG #
AAA125112

REACTIVITY
Mouse There is no detectable cross-reactivity with other relevant proteins.

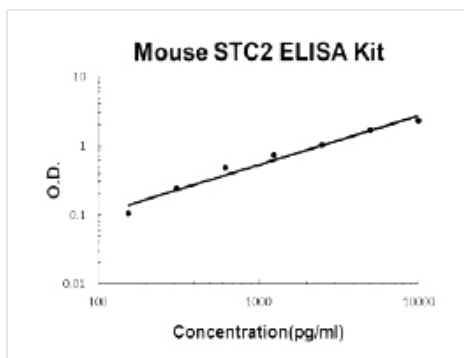
PRODUCT SYNONYMS

STC2; Mouse STC2 PicoKine ELISA Kit; Mouse STC2; Stanniocalcin-2; STC-2; Stc2; Stanniocalcin 2; STC2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant Mouse SLPI
Sequence Length	296
Samples	Cell Culture Supernates, Serum And Plasma(Heparin)
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for STC2 elisa kit	Principle of the Assay: The Picokine Mouse SLPI Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse SLPI with a 96-well strip plate that is pre-coated with antibody specific for SLPI. The detection antibody is a biotinylated antibody specific for SLPI. The capture antibody is A monoclonal antibody from rat, the detection antibody is a biotinylated detection polyclonal antibody from goat. The kit contains recombinant Mouse SLPI with immunogen: Expression system for standard: NSO, Immunogen sequence: G26-M131. The kit is analytically validated with ready to use reagents. To measure Mouse SLPI, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Mouse SLPI in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse SLPI in the sample!!Background/Introduction: Antileukoproteinase, also known as secretory leukocyte protease inhibitor (SLPI), is an enzyme that in humans is encoded by the SLPI gene. It is mapped to 2; 2 H3. SLPI is a highly cationic single-chain protein with eight intramolecular disulfide bonds. It is found in large quantities in bronchial, cervical, and nasal mucosa, saliva, and seminal fluids. SLPI inhibits human leukocyte elastase, human cathepsin G, human trypsin, neutrophil elastase, and mast cell chymase. X-ray crystallography has shown that SLPI has two homologous domains of 53 and 54 amino acids, one of which exhibits anti-protease activity (C-terminal domain). The other domain (N-terminal domain) is not known to have any function.This gene encodes a secreted inhibitor which protects epithelial tissues from serine proteases. It is found in various secretions including seminal plasma, cervical mucus, and bronchial secretions, and has affinity for trypsin, leukocyte elastase, and cathepsin G. Its inhibitory effect contributes to the immune response by protecting epithelial surfaces from attack by endogenous proteolytic enzymes; the protein is also thought to have broad-spectrum anti-biotic activity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6755676
NCBI GeneID	20856
NCBI Accession #	NP_035621.1
NCBI GenBank Nucleotide #	NM_011491.3
UniProt Accession #	O88452
Molecular Weight	32,602 Da
NCBI Official Full Name	stanniocalcin-2
NCBI Official Synonym Full Names	stanniocalcin 2
NCBI Official Symbol	Stc2
NCBI Official Synonym Symbols	Stc-2; Stc2l; mustc2; AW125853
NCBI Protein Information	stanniocalcin-2
UniProt Protein Name	Stanniocalcin-2
UniProt Gene Name	Stc2
UniProt Synonym Gene Names	STC-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.