

Human Sodium-And Chloride-Dependent Creatine Transporter 1 (SLC6A8) ELISA Kit | SLC6A8 elisa kit

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CATALOG #
AAA330802

REACTIVITY
Human

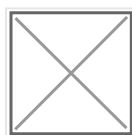
PRODUCT SYNONYMS

Sodium-And Chloride-Dependent Creatine Transporter 1 (SLC6A8); Human Sodium-And Chloride-Dependent Creatine Transporter 1 (SLC6A8) ELISA Kit; SLC6A8; CRT; CRTR; CT1; MGC87396; creatine transporter SLC6A8; sodium-and chloride-dependent creatine transporter 1; solute carrier family 6 member 8; SLC6A8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Sodium- and chloride-dependent creatine transporter 1 (SLC6A8) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC6A8. No significant cross-reactivity or interference between Human SLC6A8 and analogues was observed.
Sequence Length	625
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Sodium- and chloride-dependent creatine transporter 1 (SLC6A8) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SLC6A8 elisa kit	Description: This Human Sodium- and chloride-dependent creatine transporter 1 (SLC6A8) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC6A8 in samples. An antibody specific for SLC6A8 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC6A8 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC6A8 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLC6A8 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The creatine-phosphocreatine shuttle has important functions in the temporal and spatial maintenance of the energy supply to skeletal and cardiac muscle. Muscle cells do not synthesize creatine, but take it up via a special sodium-dependent transporter, the creatine transporter (SLC6A8). In mouse skin, they found high amounts of cytosolic brain CK (CKB) coexpressed with lower amounts of ubiquitous mitochondrial CK (CKMT1B), both mainly localized in suprabasal layers of the dermis, different cell types of hair follicles, sebaceous glands, and the subcutaneous panniculus carnosus muscle. Except for sebaceous glands, these cells also expressed CRT. Ckb and Crt were upregulated about 3-fold immediately after wounding of mouse skin, whereas the amount of Ckmt1b increased 10 to 15 days after wounding.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	218563756
NCBI GeneID	6535
NCBI Accession #	NP_001136277.1
NCBI GenBank Nucleotide #	NP_001136277.1
UniProt Accession #	P48029
NCBI Official Full Name	sodium- and chloride-dependent creatine transporter 1 isoform 2
NCBI Official Synonym Full Names	solute carrier family 6 member 8
NCBI Official Symbol	SLC6A8
NCBI Official Synonym Symbols	CRT; CT1; CRTR; CTR5; CCDS1
NCBI Protein Information	sodium- and chloride-dependent creatine transporter 1
UniProt Protein Name	Sodium- and chloride-dependent creatine transporter 1
UniProt Gene Name	SLC6A8
UniProt Synonym Gene Names	CT1
UniProt Entry Name	SC6A8_HUMAN

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.