# SLC6A8 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | SLC6A8, Polyclonal Antibody |
| **Full Product Name** | SLC6A8 (N-Term) Rabbit pAb |
| **Product Gene Name** | anti-SLC6A8 antibody |
| **Product Synonym Names** | Sodium-and chloride-dependent creatine transporter 1; CT1; Creatine transporter 1; Solute carrier family 6 member 8; SLC6A8 |
| **Clonality** | Polyclonal |
| **Isotype** | Ig |
| **Host** | Rabbit |
| **Species Reactivity** | Mouse |
| **Form/Format** | In PBS supplemented with 0.09% (W/V) Sodium Azide. |
| **Purity/Purification** | Affinity Purified |
| **OMIM** | 300036 |
| **3D Structure** | ModBase 3D Structure for P48029 |
| **Immunogen** | This SLC6A8 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 180-212 amino acids from human SLC6A8. |
| **Cellular Localization** | Membrane |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-SLC6A8 antibody** | Western Blot (WB) |
| **Application Notes for anti-SLC6A8 antibody** | WB: 1:2000 |
| **Related Product Information for anti-SLC6A8 antibody** | MBS8557959 is an antibody targeting SLC6A8. Also known as SLC6A8 (N-Term) Rabbit pAb. Reactive in Mouse. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-SLC6A8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC6A8. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 218563756 |
| **NCBI GeneID** | 6535 |
| **NCBI Accession #** | NP_001136277.1 |
| **UniProt Primary Accession #** | P48029 |
| **UniProt Related Accession #** | P48029 |
| **GenBank Nucleotide #** | NP_001136277.1 |

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| **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 |
| **UniProt Protein Name** | Sodium- and chloride-dependent creatine transporter 1 |
| **UniProt Synonym Protein Names** | Solute carrier family 6 member 8 |
| **Protein Family** | Sodium- and chloride-dependent creatine transporter |
| **UniProt Gene Name** | SLC6A8 |
| **UniProt Synonym Gene Names** | CT1 |
| **UniProt Entry Name** | SC6A8_HUMAN |
| **NCBI Protein Information** | sodium- and chloride-dependent creatine transporter 1 |
| **NCBI Summary for SLC6A8** | The protein encoded by this gene is a plasma membrane protein whose function is to transport creatine into and out of cells. Defects in this gene can result in X-linked creatine deficiency syndrome. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008] |
| **UniProt Comments for SLC6A8** | SLC6A8: Required for the uptake of creatine in muscles and brain. Defects in SLC6A8 are the cause of X-linked creatine deficiency syndrome (XL-CDS). XL-CDS causes developmental delay, hypotonia, mental retardation, seizures, short stature and midface hypoplasia. Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A8 subfamily. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, multi-pass; Membrane protein, integral; Motility/polarity/chemotaxis; Transporter, SLC family; Transporter<br><br>Chromosomal Location of Human Ortholog: Xq28<br><br>Cellular Component: integral to plasma membrane; plasma membrane; integral to membrane<br><br>Molecular Function: creatine transporter activity; neurotransmitter:sodium symporter activity; creatine:sodium symporter activity<br><br>Biological Process: muscle contraction; neurotransmitter transport; transport; sodium ion transport; creatine metabolic process; creatine transport<br><br>Disease: Cerebral Creatine Deficiency Syndrome 1 |
| **Research Articles on SLC6A8** | **1.** A novel SLC6A8 mutation associated with intellectual disabilities was detected in a Chinese family exhibiting creatine transporter deficiency. |
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