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SLC13A3 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11894

Product Information

Application	WB
Primary Accession	Q8WWT9
Other Accession	NM_022829, NP_073740
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66841

Additional Information

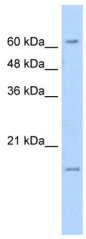
Gene ID	64849
Alias Symbol	NADC3, SDCT2
Other Names	Solute carrier family 13 member 3, Na(+)/dicarboxylate cotransporter 3, NaDC-3, hNaDC3, Sodium-dependent high-affinity dicarboxylate transporter 2, SLC13A3, NADC3, SDCT2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 100 ul of distilled water. Final anti-SLC13A3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	SLC13A3 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC13A3
Synonyms	NADC3, SDCT2
Function	High-affinity sodium-dicarboxylate cotransporter that accepts a range of substrates with 4-6 carbon atoms, such as the citric acid cycle intermediates succinate and alpha-ketoglutarate (2-oxoglutarate), as well as other compounds including N-acetyl-L-aspartate (PubMed:10794676, PubMed:10992006, PubMed:15561973, PubMed:17356845, PubMed:17426067, PubMed:24247155, PubMed:30635937). Transports the dicarboxylate into the cell with a probable stoichiometry of 3 Na(+) for 1

	divalent dicarboxylate, rendering the process electrogenic (PubMed:10794676, PubMed:10992006). Can transport citrate in a Na(+)-dependent manner, recognizing the divalent form of citrate rather than the trivalent form which is normally found in blood (PubMed:10794676). Imports itaconate in hepatocytes leading to activation of TFEB- dependent lysosomal biogenesis involved in antibacterial innate immune response.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expression is highest in kidney (PubMed:16331647). Detected in placenta, brain, liver and pancreas

Images



WB Suggested Anti-SLC13A3 Antibody Titration: 5.0µg/ml
Positive Control: HepG2 cell lysate
SLC13A3 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells