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SLC13A5 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57666

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q86YT5
Reactivity	Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63062

Additional Information

Gene ID	284111
Other Names	Solute carrier family 13 member 5, Na(+)/citrate cotransporter, NaCT, Sodium-coupled citrate transporter, Sodium-dependent citrate transporter, SLC13A5, NACT
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLC13A5
Synonyms	NACT
Function	High-affinity sodium/citrate cotransporter that mediates the entry of citrate into cells, which is a critical participant of biochemical pathways (PubMed:12445824, PubMed:12826022, PubMed:26324167, PubMed:26384929, PubMed:30054523, PubMed:33597751). May function in various metabolic processes in which citrate has a critical role such as energy production (Krebs cycle), fatty acid synthesis, cholesterol synthesis, glycolysis, and gluconeogenesis (PubMed:12826022). Transports citrate into the cell in a Na(+)- dependent manner, recognizing the trivalent form of citrate (physiological pH) rather than the divalent form (PubMed:12445824, PubMed:12826022, PubMed:26324167, PubMed:26384929, PubMed:30054523, PubMed:33597751). Can recognize succinate as a substrate, but its affinity for succinate is several fold lower than for citrate

	(PubMed:26324167). The stoichiometry is probably 4 Na(+) for each carboxylate, irrespective of whether the translocated substrate is divalent or trivalent, rendering the process electrogenic (PubMed:12445824, PubMed:12826022). Involved in the regulation of citrate levels in the brain (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed most predominantly in the liver, with moderate expression detectable in the brain and testis