10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Slc9a5 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12340

Product Information

Application	WB
Primary Accession	B2RXE2
Other Accession	NM_001081332, NP_001074801
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Mouse, Rat, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	99009

Additional Information

Gene ID	277973
Alias Symbol	Gm696
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Slc9a5 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	Slc9a5 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

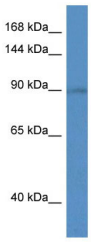
Name	Slc9a5
Synonyms	Nhe5 {ECO:0000303|PubMed:28981195}
Function	Plasma membrane Na(+)/H(+) antiporter. Mediates the electroneutral exchange of intracellular H(+) ions for extracellular Na(+) in 1:1 stoichiometry. Responsible for regulating intracellular pH homeostasis, in particular in neural tissues. Acts as a negative regulator of dendritic spine growth. Plays a role in postsynaptic remodeling and signaling. Can also contribute to organellar pH regulation, with consequences for receptor tyrosine kinase trafficking.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q14940}; Multi-pass membrane protein. Recycling endosome membrane {ECO:0000250|UniProtKB:Q14940}; Multi-pass membrane protein. Cell projection, dendritic spine membrane

{ECO:0000250|UniProtKB:Q14940}; Multi-pass membrane protein. Synaptic cell membrane {ECO:0000250|UniProtKB:Q14940}; Multi-pass membrane protein. Cell junction, focal adhesion {ECO:0000250|UniProtKB:Q14940}. Note=Cycles between recycling endosome and plasma membrane in response to diverse stimuli. Its internalization is clathrin- and beta-arrestin dependent and its plasma membrane insertion from the recycling endosomes requires phosphoinositide 3- kinase (PIK3CA) and SCAMP2. {ECO:0000250|UniProtKB:Q14940}

Tissue Location

Highest expression level is detected in brain (PubMed:28981195). Expressed in hippocampal neurons (at protein level) (PubMed:21551074).

Images



WB Suggested Anti-Slc9a5 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Brain