# RD SYSTEMS a biotechne brand

Monoclonal Mouse IgG<sub>1</sub> Clone # 891526 Catalog Number: MAB9030

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human SLC12A7 in direct ELISAs.
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 891526
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with  human SLC12A7 Met1-Ser1083 Accession # Q9Y666
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
	Recommended	Sample	
	Concentration		
Flow Cytometry	0.25 μg/10 <sup>6</sup> cells	See Below	
CyTOF-ready	Ready to be labeled with conjugation.	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

# DATA Flow Cytometry

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- 		Detection of KCC4/SLC12A7 in HEK293 Human Cell Line Transfected with Human SLC12A7 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human SLC12A7 or (B) human MRGPRF and eGFP was stained with Mouse Anti-Human KCC4/SLC12A7 Monoclonal Antibody (Catalog # MAB9030) followed by Allophycocyanin- conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB002). View our protocol for Staining Membrane-associated Proteins.
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# PREPARATION AND STORAGE Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS. Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. \*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C

## BACKGROUND

eGFP

Cation chloride cotransporters, including the potassium-chloride cotransporters (KCCs), are involved in the electroneutral movement of ions across the plasma membrane. SLC12A7 contains 12 membrane-spanning segments, 8 phosphorylation sites, 7 of which are in the C terminus, and 4 potential N-glycosylation sites. It is important for potassium recycling by siphoning potassium ions after their exit from outer hair cells into supporting Deiters cells, where potassium enters the gap junction pathway.

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**Global** bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449