e at -20C	SLC1A4 Antibody	HE .	Cell Signaling TECHNOLOGY®	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 60-80	Source: Rabbit	UniProt ID: #P43007	Entrez-Gene Id 6509		
Product Usage Information	-	oplication estern Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensi	i tivity SLO	SLC1A4 Antibody recognizes endogenous levels of total SLC1A4 protein.						
Source / Purificati	res	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human SLC1A4 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	bec the as trar am	SLC1A4, also known as ASCT1, is a neutral amino acid transporter. Its other name, ASCT1, was given because it mediates obligatory exchange of alanine, serine, cysteine, and threonine (1). SLC1A4 mediates the efflux of glutamate from the neuron into the synaptic junction via calcium-independent release, as well as mediating the efflux of L-serine from glial cells and its uptake by neurons (2). SLC1A4-mediated transport is shown to involve a symmetrical potassium-independent electroneutral exchange of neutral amino acids and sodium, such that the current activated during transport is carried only by chloride ions (3).						
Background Refe	2. [1. Takasaki, C. et al. (2007) <i>Biomed Res</i> 28, 61-9. 2. Deng, X. et al. (2008) <i>BMC Psychiatry</i> 8, 58. 3. Zerangue, N. and Kavanaugh, M.P. (1996) <i>J Biol Chem</i> 271, 27991-4.						
Species Reactivit	y Spe	cies reactivity is det	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).		
Western Blot Buff		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB	: Western Blotting						
Cross-Reactivity I	X: X	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
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