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BSND Recombinant Rabbit mAb

Catalog # AP100089

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8WZ55
Other Accession	Q8WZ55
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	35197
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Background Descriptions	This gene encodes an essential beta subunit for CLC chloride channels. These heteromeric channels localize to basolateral membranes of renal tubules and of potassium-secreting epithelia of the inner ear. Mutations in this gene have been associated with Bartter syndrome with sensorineural deafness. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	7809
Other Names	Barttin;BART
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200
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	BSND {ECO:0000303|PubMed:11687798, ECO:0000312|HGNC:HGNC:16512}
Function	Regulatory subunit of anion-selective CLCNKA:BSND and CLCNKB:BSND heteromeric channels involved in basolateral chloride conductance along the nephron to achieve urine concentration and maintain systemic acid-base homeostasis, and in the stria vascularis of the inner ear to establish the endocochlear potential necessary for normal hearing (PubMed:11734858, PubMed:12111250, PubMed:12574213, PubMed:16849430, PubMed:18776122, PubMed:19646679, PubMed:20538786, PubMed:26013830). Most likely acts as a chaperone that allosterically regulates proper sorting of CLCNKA:BSND and CLCNKB:BSND channels at the

	basolateral plasma membrane domain and functional switch to ion conducting state. Mediates constitutive opening of channel common gates (PubMed:11734858, PubMed:12111250, PubMed:12574213, PubMed:16849430, PubMed:18776122, PubMed:19646679, PubMed:20538786, PubMed:26013830).
Cellular Location	Basolateral cell membrane; Multi-pass membrane protein. Note=Mostly sorted at the basolateral membrane. A significant amount also observed intracellularly. Staining in membranes of the renal tubule and of potassium-secreting epithelia of the inner ear is basolateral (By similarity).
Tissue Location	Expressed primarily in kidney. Expressed in specific nephron segments and in the stria vascularis of the inner ear

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