



BSND Rabbit mAb

Catalog No	YP-rAb-17444
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC
Gene Name	BSND,BART
Protein Name	Barttin
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:1000-1:5000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	BART
Observed Band	35kD
Calculated Molecular Weight	35kD
Cell Pathway	SUBCELLULAR LOCATION: Basolateral cell membrane {ECO:0000269 PubMed:18776122}; Multi-pass membrane protein {ECO:0000255}. 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). {ECO:0000250}.
Tissue Specificity	TISSUE SPECIFICITY: Expressed primarily in kidney. Expressed in specific nephron segments and in the stria vascularis of the inner ear. {ECO:0000269 PubMed:11687798}.
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

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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). {ECO:0000269|PubMed:11734858, ECO:0000269|PubMed:12111250, ECO:0000269|PubMed:12574213, ECO:0000269|PubMed:16849430, ECO:0000269|PubMed:18776122, ECO:0000269|PubMed:19646679, ECO:0000269|PubMed:20538786, ECO:0000269|PubMed:26013830}.

Background

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]

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Western blot analysis of lysates from K562 cell, primary antibody was diluted at 1:1000, 4° over night, Dylight 800 secondary antibody was diluted at 1:10000, 37° 1hour.

