

**BSND Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9858b****Specification**

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**BSND Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q8WZ55</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	292-320

**BSND Antibody (C-term) - Additional Information****Gene ID** 7809**Other Names**

Barttin, BSND, BART

**Target/Specificity**

This BSND antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 292-320 amino acids from the C-terminal region of human BSND.

**Dilution**

WB~~1:1000

IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BSND Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**BSND Antibody (C-term) - Protein Information****Name** BSND**Synonyms** BART**Function** Functions as a beta-subunit for CLCNKA and CLCNKB chloride channels. In the kidney

CLCNK/BSND heteromers mediate chloride reabsorption by facilitating its basolateral efflux. In the stria, CLCNK/BSND channels drive potassium secretion by recycling chloride for the basolateral SLC12A2 cotransporter.

#### Cellular Location

Cell membrane; Multi-pass membrane protein. Cytoplasm. Note=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

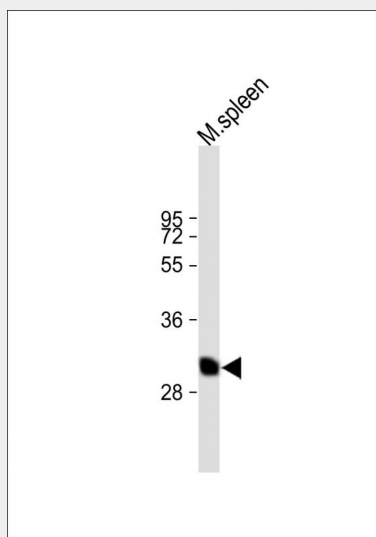
Expressed primarily in kidney. Expressed in specific nephron segments and in the stria vascularis of the inner ear

### BSND Antibody (C-term) - Protocols

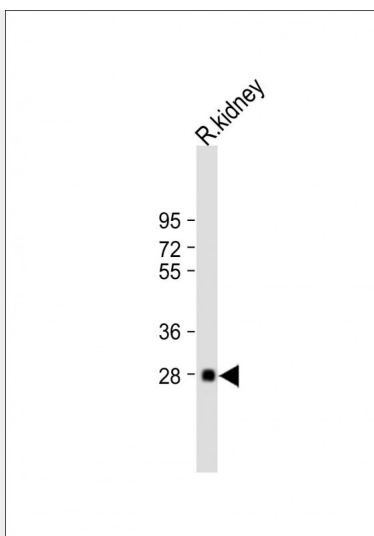
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

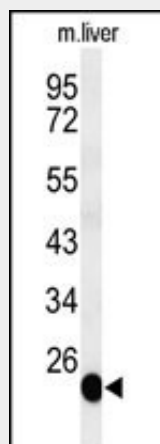
### BSND Antibody (C-term) - Images



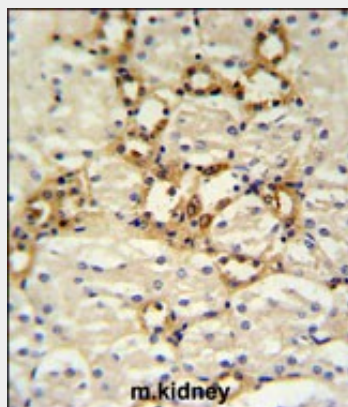
All lanes : Anti-BSND Antibody (C-term) at 1:1000 dilution Lane 1: mouse spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Observed band size : 32 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-BSND Antibody (C-term) at 1:2000 dilution Lane 1: rat kidney lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated  
at 1/10000 dilution. Observed band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of BSND Antibody (C-term) (Cat. #AP9858b) in mouse liver tissue lysates  
(35ug/lane). BSND (arrow) was detected using the purified Pab.



BSND Antibody (C-term) (Cat. #AP9858b) IHC analysis in formalin fixed and paraffin embedded  
mouse kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB  
staining. This data demonstrates the use of the BSND Antibody (C-term) for  
immunohistochemistry. Clinical relevance has not been evaluated.

#### BSND Antibody (C-term) - Background

BSND 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.

#### **BSND Antibody (C-term) - References**

Riazuddin, S., et al. Am. J. Hum. Genet. 85(2):273-280(2009)  
Brochard, K., et al. Nephrol. Dial. Transplant. 24(5):1455-1464(2009)  
Bircan, Z., et al. Pediatr. Nephrol. 24(4):841-844(2009)  
Kathiresan, S., et al. Nat. Genet. 41(3):334-341(2009)  
Kathiresan, S., et al. Nat. Genet. 41(1):56-65(2009)