

BSND Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9858b**Specification**

BSND Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q8WZ55](#)**BSND Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 7809**Other Names**

Barttin, BSND, BART

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BSND Antibody (C-term) Blocking Peptide - 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).

href="http://www.uniprot.org/citations/16849430" target="_blank">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

BSND Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

BSND Antibody (C-term) Blocking Peptide - Images

BSND Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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)