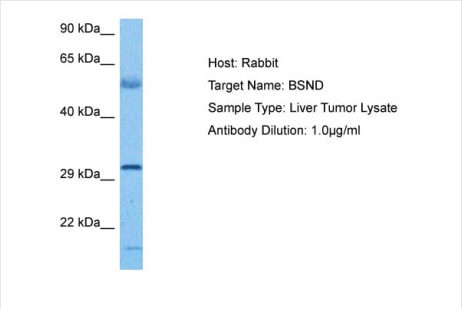
BSND Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BSND, Polyclonal Antibody
Full Product Name	BSND Antibody - middle region
Product Gene Name	anti-BSND antibody
Product Synonym Gene Name	BART; DFNB73
Immunogen Sequence	Synthetic peptide located within the following region: PGDVQAWMEA AVVIHKGSDE SEGERRLTQS WPGPLACPQG PAPLASFQDD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Pig
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	BSND peptide (MBS3239342) is used for blocking the activity of BSND antibody (MBS3214405)
Molecular Weight	35 kDa
OMIM	602522
3D Structure	ModBase 3D Structure for Q8WZ55
Homology	Human: 100%; Pig: 77%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human BSND
Product Categories/Family for anti-BSND antibody	Polyclonal; Ion Channel; Disease Related; Tissue Specific & Cell Marker
Related Product Information for anti-BSND antibody	Bartter syndrome, infantile, with sensorineural deafness (Barttin) Target Description: 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.
Other Notes	Small volumes of anti-BSND antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BSND purchase	MBS3214405 is an antibody targeting BSND. Also known as BSND Antibody - middle region. Reactive in Human, Pig. Host: Rabbit.



Western Blot (WB) of anti-BSND antibody
Host: RabbitTarget Name: BSNDSample Tissue: Human Liver Tumor lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BSND. It may not necessarily be applicable to this product.

NCBI GI #	17017967
NCBI GeneID	7809
NCBI Accession #	NP_476517
UniProt Primary Accession #	Q8WZ55
UniProt Related Accession #	Q8WZ55
GenBank Nucleotide #	NM_057176.2
NCBI Official Full Name	barttin
NCBI Official Synonym Full Names	barttin CLCNK type accessory beta subunit
NCBI Official Symbol	BSND
NCBI Official Synonym Symbols	BART; DFNB73
UniProt Protein Name	Barttin
Protein Family	Barttin
UniProt Gene Name	BSND
UniProt Synonym Gene Names	BART
UniProt Entry Name	BSND_HUMAN
NCBI Protein Information	barttin
NCBI Summary for BSND	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]

UniProt Comments for BSND	BSND: 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. Defects in BSND are the cause of Bartter syndrome type 4A (BS4A); also known as infantile Bartter syndrome with sensorineural deafness. BS refers to a group of autosomal recessive disorders characterized by impaired salt reabsorption in the thick ascending loop of Henle with pronounced salt wasting, hypokalemic metabolic alkalosis, and varying degrees of hypercalciuria. BS4A is associated with sensorineural deafness. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Transporter; Transporter, ion channel Chromosomal Location of Human Ortholog: 1p32.1 Cellular Component: protein complex; integral to plasma membrane; basolateral plasma membrane; cytoplasm; plasma membrane Molecular Function: chloride channel activity; chloride channel regulator activity Biological Process: transmembrane transport Disease: Bartter Syndrome, Type 4a
Research Articles on BSND	**1.** Increasing expression of barttin over that of ClC-K partially recovered this insufficiency, indicating that N-terminal modifications of barttin alter both binding affinities and gating properties
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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