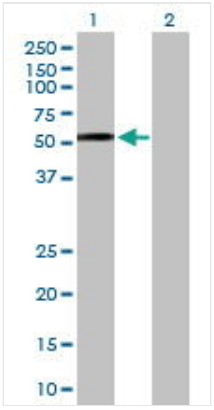
DTNBP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DTNBP1, Polyclonal Antibody
Full Product Name	DTNBP1 (Dysbindin, Biogenesis of Lysosome-related Organelles Complex 1 Subunit 8, BLOC-1 Subunit 8, Dysbindin-1, Dystrobrevin-binding Protein 1
Product Gene Name	anti-DTNBP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human DTNBP1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
OMIM	gene 614076
3D Structure	ModBase 3D Structure for Q96EV8
Immunogen	Full length human DTNBP1, aa1-351 (NP_115498.2).
Immunogen Sequence	MLETLRERLLSVQQDFTSGLKTLSDKSREAKVKSKPRTVPFLPKYSAGLELLSRYEDTWAALHRRAKDCASAGELVDSEVVMLSAHWEKKKTSLVELQEC
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-DTNBP1 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-DTNBP1 antibody	Western Blot (WB)
Application Notes for anti-DTNBP1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-DTNBP1 antibody	Dtnbp1 may play a role in organelle biogenesis associated with melanosomes, platelet dense granules, and lysosomes. A similar protein in mouse is a
Other Notes	Small volumes of anti-DTNBP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece

Searchable Terms for DTNBP1 purchase	MBS6376633 is an antibody targeting DTNBP1. Also known as DTNBP1 (Dysbindin, Biogenesis of Lysosome-related Organelles Complex 1 Subunit 8



Western Blot (WB) of anti-DTNBP1 antibody
Western Blot analysis of DTNBP1 expression in transfected 293T cell line by DTNBP1 polyclonal antibody. Lane 1: DTNBP1 transfected lysate (39.5kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DTNBP1. It may not necessarily be applicable to this product.

NCBI GI #	19549327
NCBI GeneID	84062
NCBI Accession #	NP_115498.2
UniProt Primary Accession #	Q96EV8
UniProt Related Accession #	Q96EV8
GenBank Nucleotide #	NM_032122.3
NCBI Official Full Name	dysbindin isoform a
NCBI Official Synonym Full Names	dystrobrevin binding protein 1
NCBI Official Symbol	DTNBP1
NCBI Official Synonym Symbols	SDY; DBND; HPS7; My031; BLOC1S8
UniProt Protein Name	Dysbindin
UniProt Synonym Protein Names	Biogenesis of lysosome-related organelles complex 1 subunit 8; BLOC-1 subunit 8; Dysbindin-1; Dystrobrevin-binding protein 1; Hermansky-Pudlak syndrome 7 protein; HPS7 protein
Protein Family	Dysbindin
UniProt Gene Name	DTNBP1
UniProt Synonym Gene Names	BLOC1S8; BLOC-1 subunit 8; HPS7 protein
UniProt Entry Name	DTBP1_HUMAN
NCBI Protein Information	dysbindin

NCBI Summary for DTNBP1	This gene encodes a protein that may play a role in organelle biogenesis associated with melanosomes, platelet dense granules, and lysosomes. A similar protein in mouse is a component of a protein complex termed biogenesis of lysosome-related organelles complex 1 (BLOC-1), and binds to alpha- and beta-dystrobrevins, which are components of the dystrophin-associated protein complex (DPC). Mutations in this gene are associated with Hermansky-Pudlak syndrome type 7. This gene may also be associated with schizophrenia. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for DTNBP1	DTNBP1: The BLOC-1 complex is required for normal biogenesis of lysosome-related organelles, such as platelet dense granules and melanosomes. Plays a role in intracellular vesicle trafficking. Plays a role in synaptic vesicle trafficking and in neurotransmitter release. May be required for normal dopamine homeostasis in the cerebral cortex, hippocampus, and hypothalamus. Plays a role in the regulation of cell surface exposure of DRD2. Contributes to the regulation of dopamine signaling. May play a role in actin cytoskeleton reorganization and neurite outgrowth. May modulate MAPK8 phosphorylation. Part of the biogenesis of lysosome-related organelles complex 1 (BLOC-1). The BLOC-1 complex is composed of BLOC1S1, BLOC1S2, BLOC1S3, DTNBP1, MUTED, PLDN, CNO/cappuccino and SNAPIN. Binds to DTNA and DTNB but may not be a physiological binding partner (PubMed:16980328). Interacts with RNF151 and CMYA5. Identified in a complex with the adapter-related protein complex 3 (AP-3). Interacts with TRIM32, AP3M1 and AP3B2. Identified in a complex with the biogenesis of lysosome-related organelles complex 2 (BLOC-2). Interacts with the DNA-dependent protein kinase complex DNA-PK. Detected in brain, in neurons and in neuropil. Detected in dentate gyrus and in pyramidal cells of hippocampus CA2 and CA3. Belongs to the dysbindin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Vesicle Chromosomal Location of Human Ortholog: 6p22.3 Cellular Component: endoplasmic reticulum membrane; neuron projection; synaptic vesicle membrane; melanosome membrane; postsynaptic density; dendritic spine; cytosol; postsynaptic membrane; growth cone; axon; cytoplasm; endosome membrane; nucleus; sarcoplasm; cell junction; sarcolemma Molecular Function: protein binding Biological Process: platelet dense granule organization and biogenesis; melanosome organization and biogenesis; regulation of dopamine receptor signaling pathway; actin cytoskeleton reorganization; anterograde synaptic vesicle transport; post-Golgi vesicle-mediated transport; blood coagulation; anterograde axon cargo transport; positive regulation of neurotransmitter secretion; regulation of dopamine secretion; neurite development; neurite morphogenesis Disease: Schizophrenia; Hermansky-pudlak Syndrome 7
Research Articles on DTNBP1	**1.** our work reveals the regulation of dysbindin by VRK2, providing the association of these two proteins, which are commonly implicated in schizophrenia
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