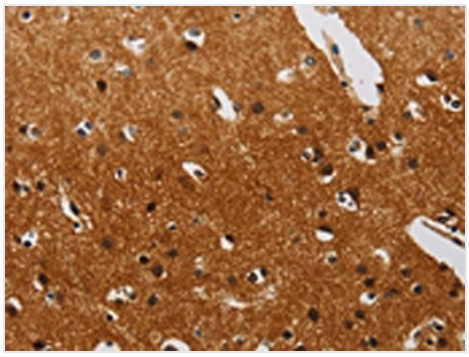
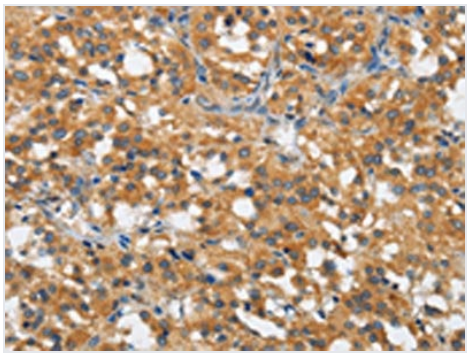
DTNBP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DTNBP1, Polyclonal Antibody
Full Product Name	DTNBP1 Antibody
Product Gene Name	anti-DTNBP1 antibody
Product Synonym Names	dystrobrevin binding protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	351
OMIM	gene 614076
3D Structure	ModBase 3D Structure for Q96EV8
Immunogen	Synthetic peptide of human DTNBP1
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-DTNBP1 antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DTNBP1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-DTNBP1 antibody	ELISA: 1:1000-1:10000 IHC: 1:20-1:100
Related Product Information for anti-DTNBP1 antibody	MBS7127074 is an antibody targeting DTNBP1. Also known as DTNBP1 Antibody. Reactive in Human. Host: Rabbit.
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 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.



Immunohistochemistry (IHC)-Paraffin of anti-DTNBP1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using MBS7127074(DTNBP1 Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-DTNBP1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using MBS7127074(DTNBP1 Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)

ADDITIONAL DETAILS

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

NCBI GI #	38604971
NCBI GeneID	84062
NCBI Accession #	Q96EV8.1
UniProt Primary Accession #	Q96EV8
UniProt Secondary Accession #	Q5THY3; Q5THY4; Q96NV2; Q9H0U2; Q9H3J5; A8K3V3
UniProt Related Accession #	Q96EV8
NCBI Official Full Name	Dysbindin
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; dysbindin-1; BLOC-1 subunit 8; Hermansky-Pudlak syndrome 7 protein; biogenesis of lysosomal organelles complex-1, subunit 8; biogenesis of lysosome-related organelles complex 1 subunit 8
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.** loss of function mutations in the genes encoding dysbindin and its interacting BLOC-1 subunits
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