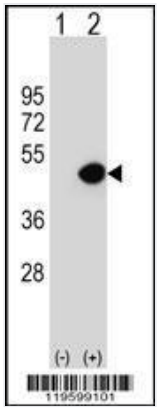
DCTN2 Antibody – Rabbit Polyclonal

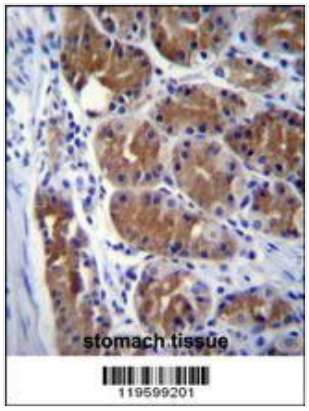
PRODUCT OVERVIEW

Product Name	DCTN2, Polyclonal Antibody
Full Product Name	DCTN2, ID (DCTN2, DCTN50, Dynactin subunit 2, 50kD dynein-associated polypeptide, Dynactin complex 50kD subunit, p50 dynamitin)
Product Gene Name	anti-DCTN2 antibody
Product Synonym Names	Anti -DCTN2, ID (DCTN2, DCTN50, Dynactin subunit 2, 50kD dynein-associated polypeptide, Dynactin complex 50kD subunit, p50 dynamitin)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Purified Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	44,231 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (57923833..57941114, complement). Location: 12q13.3
OMIM	607376
3D Structure	ModBase 3D Structure for Q13561
Immunogen	DCTN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 191-219 amino acids from the Central region of human DCTN2.
Product Categories/Family for anti-DCTN2 antibody	Antibodies; Abs to Proteins
Applications Tested/Suitable for anti-DCTN2 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-DCTN2 antibody	Suitable for use in Western Blot, Immunohistochemistry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:50-100 Immunohistochemistry: 1:10-50
Related Product Information for anti-DCTN2 antibody	This gene encodes a 50-kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 4-5 copies per dynactin molecule. It contains three short alpha-helical coiled-coil domains that may mediate association with self or other dynactin subunits. It may interact directly with the largest subunit (p150) of dynactin and may affix p150 in place.

Other Notes	Small volumes of anti-DCTN2 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 DCTN2 purchase	MBS643263 is an antibody targeting DCTN2. Also known as DCTN2, ID (DCTN2, DCTN50, Dynactin subunit 2, 50kD dynein-associated polypeptide, Dynactin complex 50kD subunit, p50 dynamitin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DCTN2 antibody
Western blot analysis of DCTN2 (arrow) using rabbit polyclonal DCTN2 Antibody (Center) . 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DCTN2 gene.



Immunohistochemistry (IHC) of anti-DCTN2 antibody
DCTN2 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DCTN2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DCTN2. It may not necessarily be applicable to this product.

NCBI GI #	15559432
NCBI GeneID	10540
NCBI Accession #	AAH14083.1
UniProt Primary Accession #	Q13561
UniProt Secondary Accession #	Q86YN2; Q9BW17; B2RBK5
UniProt Related Accession #	Q13561
NCBI Official Full Name	DCTN2 protein
NCBI Official Synonym Full Names	dynactin 2 (p50)
NCBI Official Symbol	DCTN2
NCBI Official Synonym Symbols	RBP50; DCTN50; DYNAMITIN
UniProt Protein Name	Dynactin subunit 2
UniProt Synonym Protein Names	50 kDa dynein-associated polypeptide; Dynactin complex 50 kDa subunit; DCTN-50; p50 dynamitin
Protein Family	Dynactin
UniProt Gene Name	DCTN2
UniProt Synonym Gene Names	DCTN50; DCTN-50
UniProt Entry Name	DCTN2_HUMAN
NCBI Protein Information	dynactin subunit 2; p50 dynamitin; dynactin complex 50 kD subunit; dynactin complex 50 kDa subunit; 50 kD dynein-associated polypeptide; 50 kDa dynein-associated polypeptide

NCBI Summary for DCTN2	This gene encodes a 50-kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 4-5 copies per dynactin molecule. It contains three short alpha-helical coiled-coil domains that may mediate association with self or other dynactin subunits. It may interact directly with the largest subunit (p150) of dynactin and may affix p150 in place. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2012]
UniProt Comments for DCTN2	dynactin 2: Modulates cytoplasmic dynein binding to an organelle, and plays a role in prometaphase chromosome alignment and spindle organization during mitosis. Involved in anchoring microtubules to centrosomes. May play a role in synapse formation during brain development. Belongs to the dynactin subunit 2 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Microtubule-binding; Motor; Cytoskeletal; Motility/polarity/chemotaxis; Cell cycle regulation Chromosomal Location of Human Ortholog: 12q13.3 Cellular Component: kinetochore; dynein complex; microtubule; centrosome; dynactin complex; growth cone; membrane; cytoplasm; cytosol; vesicle Molecular Function: protein binding; spectrin binding; motor activity Biological Process: mitosis; cell proliferation; mitotic spindle organization and biogenesis; metabolic process; organelle organization and biogenesis; antigen processing and presentation of exogenous peptide antigen via MHC class II; mitotic cell cycle; G2/M transition of mitotic cell cycle; melanosome transport
Research Articles on DCTN2	**1.** the determinants of p50/DM required for self-oligomerization of the protein and for interactions with other subunits of the dynactin complex
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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