

ARG63459 anti-DCTN1 / p150-glued antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes DCTN1 / p150-glued
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, IHC-P, WB
Specificity	This antibody is expected to recognise all reported isoforms (NP_004073.2; NP_075408.1; NP_001128512.1; NP_001128513.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	DCTN1 / p150-glued
Species	Human
Immunogen	C-QEQLHQLHSRLIS
Conjugation	Un-conjugated
Alternate Names	P135; p150-glued; p135; DP-150; Dynactin subunit 1; 150 kDa dynein-associated polypeptide; DAP-150

Application Instructions

Application table	Application	Dilution
	FACS	10 µg/ml
	ICC/IF	10 µg/ml
	IHC-P	2 - 4 µg/ml
	WB	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

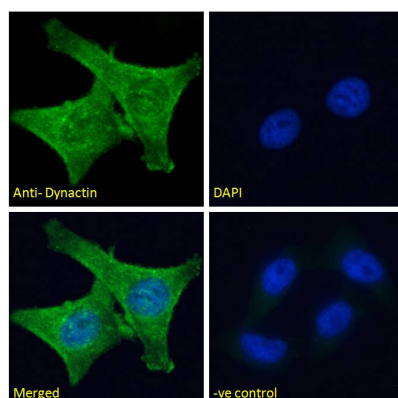
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

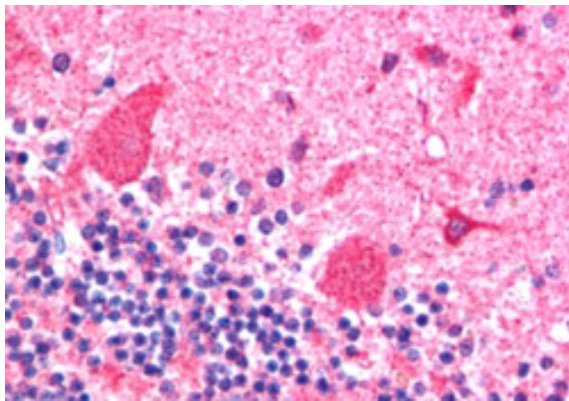
Database links	GeneID: 13191 Mouse GeneID: 1639 Human Swiss-port # O08788 Mouse Swiss-port # Q14203 Human
Background	<p>This gene encodes the largest subunit of dynactin, a macromolecular complex consisting of 10 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. Dynactin 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 interacts with dynein intermediate chain by its domains directly binding to dynein and binds to microtubules via a highly conserved glycine-rich cytoskeleton-associated protein (CAP-Gly) domain in its N-terminus. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. Mutations in this gene cause distal hereditary motor neuropathy type VIIB (HMN7B) which is also known as distal spinal and bulbar muscular atrophy (dSBMA). [provided by RefSeq, Oct 2008]</p>
Research Area	Cell Biology and Cellular Response antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	142 kDa
PTM	<p>Ubiquitinated by a SCF complex containing FBXL5, leading to its degradation by the proteasome. Phosphorylation by SLK at Thr-145, Thr-146 and Thr-147 targets DCTN1 to the centrosome. It is uncertain if SLK phosphorylates all three threonines or one or two of them. PLK1-mediated phosphorylation at Ser-179 is essential for its localization in the nuclear envelope, promotes its dissociation from microtubules during early mitosis and positively regulates nuclear envelope breakdown during prophase.</p>

Images



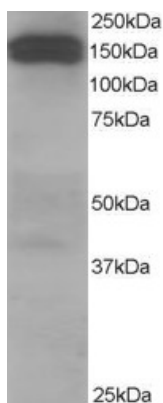
ARG63459 anti-DCTN1 / p150-glued antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed HeLa cells permeabilized with 0.15% Triton. Cells were stained with ARG63459 anti-DCTN1 / p150-glued antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



ARG63459 anti-DCTN1 / p150-glued antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cerebellum. (Steamed antigen retrieval with citrate buffer pH 6.0) stained with ARG63459 anti-DCTN1 / p150-glued antibody at 2.5 µg/ml dilution followed by AP-staining.



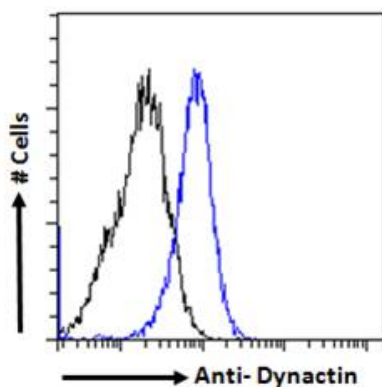
ARG63459 anti-DCTN1 / p150-glued antibody WB image

Western blot: Human testis lysate (RIPA buffer, 35 µg total protein per lane) stained with ARG63459 anti-DCTN1 / p150-glued antibody at 1 µg/ml dilution.



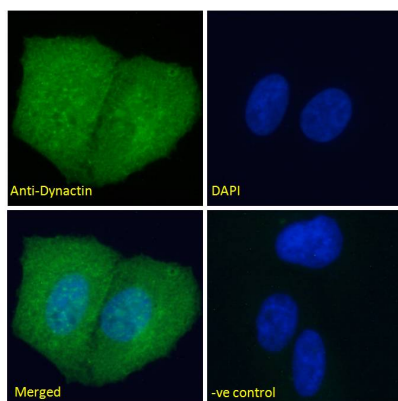
ARG63459 anti-DCTN1 / p150-glued antibody WB image

Western blot: 35 µg of Human cerebellum lysate (in RIPA buffer) stained with ARG63459 anti-DCTN1 / p150-glued antibody at 1 µg/ml dilution and incubated at RT for 1 hour.



ARG63459 anti-DCTN1 / p150-glued antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed HeLa cells permeabilized with 0.5% Triton. Cells were stained with ARG63459 anti-DCTN1 / p150-glued antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



ARG63459 anti-DCTN1 / p150-glued antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed U2OS cells permeabilized with 0.15% Triton. Cells were stained with ARG63459 anti-DCTN1 / p150-glued antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.