

Product datasheet for **TA307941**

DCTN1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	ICC/IF:1:100-1:1000; IHC:1:100-1:1000; WB:1:500-1:3000
Reactivity:	Human (Predicted: Mouse, Rat, Bovine)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region within amino acids 1216 and 1278 of DCTN1 (Uniprot ID#Q14203)
Formulation:	0.1M Tris, 0.1M Glycine, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	142 kDa
Gene Name:	dynactin subunit 1
Database Link:	NP_001128513 Entrez Gene 13191 Mouse Entrez Gene 29167 Rat Entrez Gene 1639 Human Q14203



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Background:

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]

Synonyms:

DAP-150; DP-150; P135

Note:

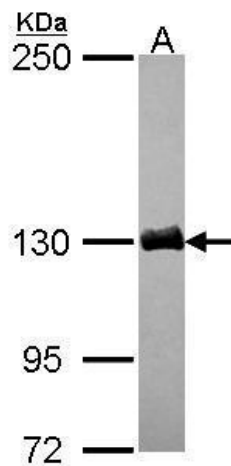
Seq homology of immunogen across species: Mouse (100%), Rat (92%), Bovine (92%)

Protein Families:

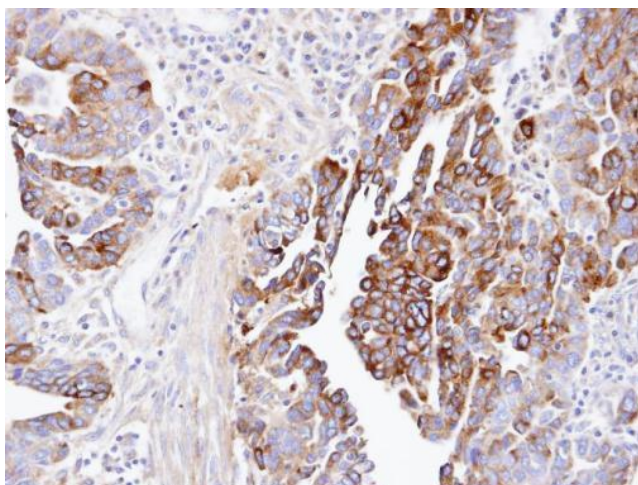
Druggable Genome

Protein Pathways:

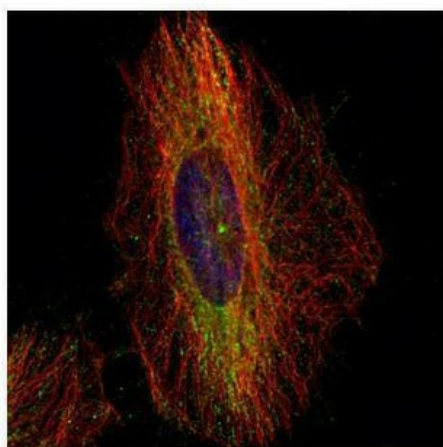
Huntington's disease

Product images:

Sample (30 ug of whole cell lysate). A: JurKat. 5% SDS PAGE. TA307941 diluted at 1:3000.



Immunohistochemical analysis of paraffin-embedded OVCA, using dynactin 1 (TA307941) antibody at 1:100 dilution.



Confocal immunofluorescence analysis (Olympus FV10i) of methanol-fixed HeLa, using DCTN1 (TA307941) antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with anti-alpha tubulin antibody (Red) at 1:2000.