

# Product Datasheet

## Dynactin Subunit 1/DCTN1 Antibody NB100-1110

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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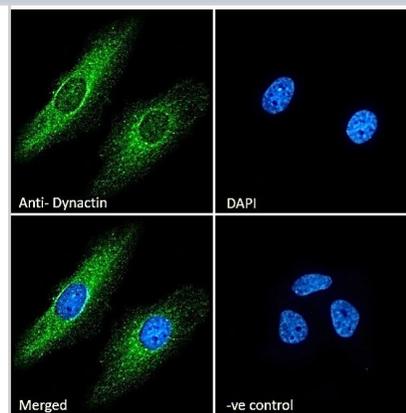


**NB100-1110****Dynactin Subunit 1/DCTN1 Antibody**

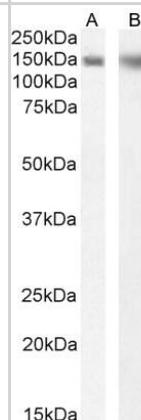
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
<b>Target Molecular Weight</b>	142 kDa
<b>Product Description</b>	
<b>Host</b>	Goat
<b>Gene ID</b>	1639
<b>Gene Symbol</b>	DCTN1
<b>Species</b>	Human, Rabbit
<b>Reactivity Notes</b>	Rabbit reactivity reported in scientific literature (PMID: 19136602).
<b>Specificity/Sensitivity</b>	This antibody is expected to recognise all reported isoforms.
<b>Immunogen</b>	Peptide with sequence C-QEQLHQLHSRLIS, from the C Terminus of the protein sequence according to NP_004073.2; NP_075408.1; NP_001128512.1; NP_001128513.1; NP_001177765.1; NP_001177766.1.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA, Proximity Ligation Assay
<b>Recommended Dilutions</b>	Western Blot 0.3-1 ug/ml, Flow Cytometry 10 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 10 ug/ml, Immunohistochemistry-Paraffin 6-7 ug/ml, Proximity Ligation Assay, Peptide ELISA Detection limit 1:16000
<b>Application Notes</b>	WB: Approx. 150kDa band observed in HeLa and MCF7 cell lysates, and in preliminary testing of HEK293 and Mouse Brain lysate (calculated MW of 142kDa according to NP_004073.2). Primary incubation 1 hour at room temperature. Use in Proximity Ligation Assay reported in scientific literature (PMID: 30354839).

## Images

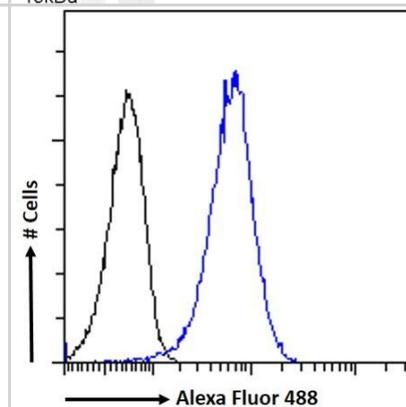
**Immunocytochemistry/Immunofluorescence: Dynactin Subunit 1/DCTN1 Antibody [NB100-1110]** - Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



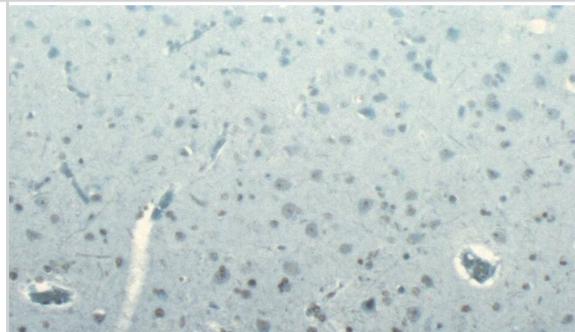
**Western Blot: Dynactin Subunit 1/DCTN1 Antibody [NB100-1110]** - (1ug/ml) staining of HeLa (A) and (0.5ug/ml) MCF7 (B) cell lysate (35ug protein in RIPA buffer). Detected by chemiluminescence.



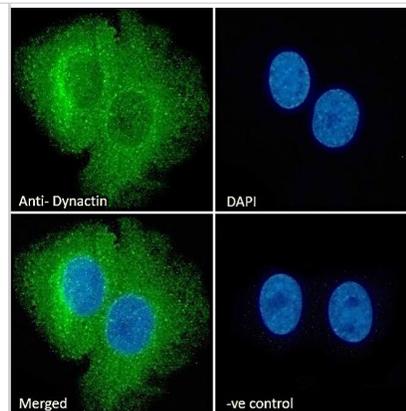
**Flow Cytometry: Dynactin Subunit 1/DCTN1 Antibody [NB100-1110]** - Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



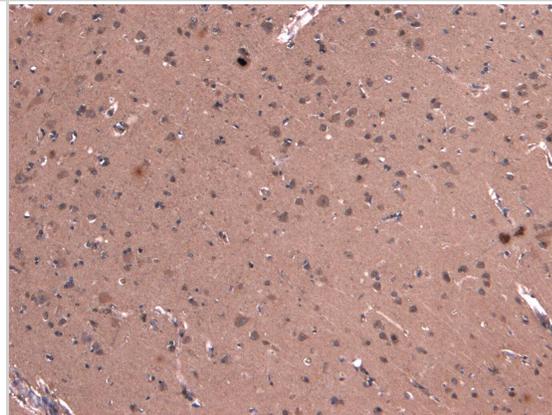
**Immunohistochemistry-Paraffin: Dynactin Subunit 1/DCTN1 Antibody [NB100-1110]** - Negative Control showing staining of paraffin embedded Human Cortex, with no primary antibody.



Immunocytochemistry/Immunofluorescence: Dynactin Subunit 1/DCTN1 Antibody [NB100-1110] - Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and some nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Immunohistochemistry-Paraffin: Dynactin Subunit 1/DCTN1 Antibody [NB100-1110] - (7ug/ml) staining of paraffin embedded Human Cortex. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



## Publications

Gasperini L, Rossi A, Cornella N et al. The hnRNP raly regulates PRMT1 expression and interacts with the ALS-linked protein FUS: implication for reciprocal cellular localization. *Mol. Biol. Cell.* 2018-10-24 [PMID: 30354839] (WB, PLA)

Holzbaur EL, Tokito MK. Localization of the DCTN1 gene encoding p150Glued to human chromosome 2p13 by fluorescence in situ hybridization. *Genomics* 1996-02-01 [PMID: 8838327]

Bupha-Intr T, Haizlip KM, Janssen PM. Temporal changes in expression of connexin 43 after load-induced hypertrophy in vitro. *Am J Physiol Heart Circ Physiol.* 2009-03-01 [PMID: 19136602] (WB, Rabbit)

Details:

WB (rabbit heart tissue), Figs. 2A,B; 3A,B; 4A,B; 6A.



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### **Products Related to NB100-1110**

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NBL1-09749	Dynactin Subunit 1/DCTN1 Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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