

# AB-PN874

## DCTN1-pS541 Antibody

Phosphosite-specific rabbit polyclonal antibody for DCTN1



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### Target Protein

|                                |                                                                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Name Long:</b>      | Dynactin subunit 1                                                                                                                                                                               |
| <b>Protein Alias:</b>          | 150 kDa dynein-associated polypeptide; 150 kDa dynein-associated polypeptide; DP-150; DAP-150; p150-glued; p135; DAP-150; DCTN1; DP-150; DYNA; Dynactin 1 (p150, glued); DYNAN; P135; P150-glued |
| <b>UniProt ID:</b>             | Q14203                                                                                                                                                                                           |
| <b>Protein Molecular Mass:</b> | 141,695 Da (1,278 AA)                                                                                                                                                                            |

### Immunogen

|                                        |                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antibody Immunogen Source:</b>      | Synthetic phosphopeptide patterned after human DCTN1                                                                                                                                                                 |
| <b>Antibody Immunogen Sequence:</b>    | QEA(pS)VER( $\beta$ A)C                                                                                                                                                                                              |
| <b>Antibody Immunogen Description:</b> | Corresponds to amino acid residues Q538 to R544. The effect of S541 phosphorylation is unclear. This is a minor site of <i>in vivo</i> phosphorylation with 4 mass spectrometry reports recorded in PhosphoSitePlus. |
| <b>Antibody Target Type:</b>           | Phosphosite-specific                                                                                                                                                                                                 |

### Production

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antibody Host Species:</b>  | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Antibody Type:</b>          | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Antibody Isotype:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Production Method:</b>      | The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. |
| <b>Amount:</b>                 | 25 $\mu$ g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Antibody Concentration:</b> | 0.75 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer:</b>         | Phosphate buffered saline pH 7.4, 0.05% Thimerasol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Conditions:</b>     | For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage Stability:</b>      | >2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Applications

|                                       |                                                                          |
|---------------------------------------|--------------------------------------------------------------------------|
| <b>Product Use:</b>                   | Western blotting   Antibody microarray                                   |
| <b>Antibody Dilution Recommended:</b> | 2 µg/ml for immunoblotting                                               |
| <b>Antibody Species Reactivity:</b>   | Human   Chimpanzee   Rhesus macaque   Dog   Rat   Mouse   Chicken   Frog |

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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