

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Dynactin Subunit 2/DCTN2 in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Dynactin Subunit 1/DCTN1 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 696206
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Dynactin Subunit 2/DCTN2 Asp277-Lys401 Accession # Q13561
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DCTN2 (Dynactin-2; also 50 kDa Dynein-associated polypeptide and p50 Dynamitin) is a 50 kDa intracellular member of the Dynactin family of phosphoproteins. It is ubiquitously expressed and serves to stabilize the Dynactin complex of 11 different proteins. This complex is an obligate cofactor of Dynein and Kinesin motors, which position the mitotic spindle for cell division and move vesicles within the cell. Human Dynactin Subunit 2 is 401 amino acids (aa) in length. It contains three coiled-coil regions (aa 99-132, 214-244 and 379-399), two potential phosphorylation sites (Ser83 and Tyr86), and one acetylation site at Ala2. The first two coiled-coil regions contribute to oligomerization, while aa 1-91 are essential for Dynactin regulation. Potential isoform variants utilize either a five or two aa insertion after Ala35, an alternative start site at Met88, and a 21 aa substitution for aa 118-401. Over aa 277-401, human Dynactin Subunit 2 shares 95% aa identity with mouse Dynactin Subunit 2.

PRODUCT SPECIFIC NOTICES

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