

**DCTN2 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant DCTN2.

Catalog # AT1722a

**Specification**

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**DCTN2 Antibody (monoclonal) (M01) - Product Information**

Application	WB, IF, E
Primary Accession	<a href="#">Q13561</a>
Other Accession	<a href="#">BC000718</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 lambda
Calculated MW	44231

**DCTN2 Antibody (monoclonal) (M01) - Additional Information**

Gene ID 10540

**Other Names**

Dynactin subunit 2, 50 kDa dynein-associated polypeptide, Dynactin complex 50 kDa subunit, DCTN-50, p50 dynamitin, DCTN2, DCTN50

**Target/Specificity**

DCTN2 (AAH00718, 302 a.a. ~ 401 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 kDa.

**Dilution**

WB~~1:500~1000

IF~~1:50~200

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

DCTN2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

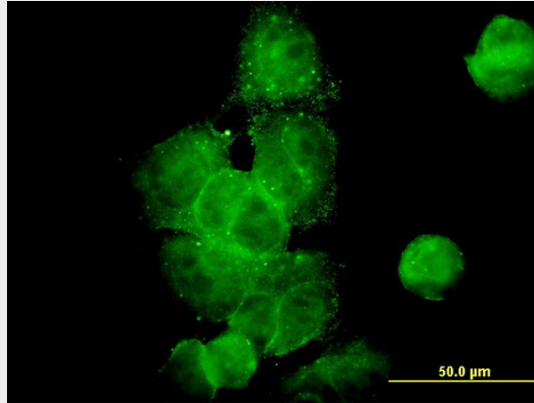
**DCTN2 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

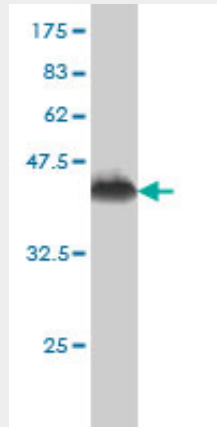
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

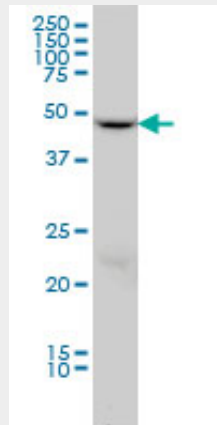
### DCTN2 Antibody (monoclonal) (M01) - Images



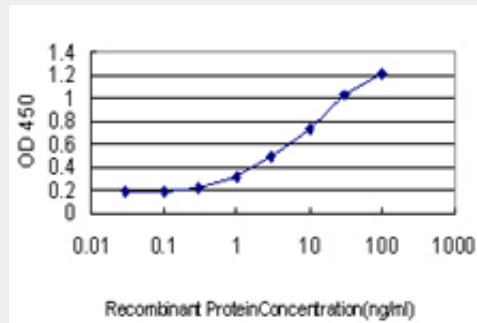
Immunofluorescence of monoclonal antibody to DCTN2 on MCF-7 cell . [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



DCTN2 monoclonal antibody (M01), clone 2G7 Western Blot analysis of DCTN2 expression in MCF-7 ( (Cat # AT1722a )



Detection limit for recombinant GST tagged DCTN2 is approximately 0.3ng/ml as a capture antibody.

### **DCTN2 Antibody (monoclonal) (M01) - Background**

This gene encodes a 50-kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It 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 is present in 4-5 copies per dynactin molecule. It contains three short alpha-helical coiled-coil domains that may mediate association with self or other dynactin subunits. It may interact directly with the largest subunit (p150) of dynactin and may affix p150 in place.

### **DCTN2 Antibody (monoclonal) (M01) - References**

Molecular and functional basis for the scaffolding role of the p50/dynamitin subunit of the microtubule-associated dynactin complex. Jacquot G, et al. J Biol Chem, 2010 Jul 23. PMID 20463029. Proteomic analysis reveals Hrs ubiquitin-interacting motif-mediated ubiquitin signaling in multiple cellular processes. Pridgeon JW, et al. FEBS J, 2009 Jan. PMID 19019082. N-terminal region of ZW10 serves not only as a determinant for localization but also as a link with dynein function. Inoue M, et al. Genes Cells, 2008 Aug. PMID 18782227. Dynamitin mutagenesis reveals protein-protein interactions important for dynactin structure. Maier KC, et al. Traffic, 2008 Apr. PMID 18182012. GSK-3beta-regulated interaction of BICD with dynein is involved in microtubule anchorage at centrosome. Fumoto K, et al. EMBO J, 2006 Dec 13. PMID 17139249.