



Dynactin 2 Polyclonal Antibody

Catalog No	YP-Ab-03126
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	DCTN2
Immunogen	The antiserum was produced against synthesized peptide derived from human p50 Dynamitin. AA range:341-390
Specificity	Dynactin 2 Polyclonal Antibody detects endogenous levels of Dynactin 2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DCTN2;DYNAMITIN;Dynamitin (1-401 AA);Dynamitin (1-83 AA);Dynamitin (1-86 AA);Dynactin 2;Dynactin subunit 2;DCTN50;50 kDa dynein-associated polypeptide;Dynactin complex 50 kDa subunit;DCTN-50;p50 dynamitin
Observed Band	50kD
Calculated Molecular Weight	50kD
Cell Pathway	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Membrane ; Peripheral membrane protein .
Tissue Specificity	Brain,Embryonic kidney,Fetal brain cortex,Placenta,Platelet,Skin,Uterus,
Function	function:Modulates cytoplasmic dynein binding to an organelle, and plays a role in prometaphase chromosome alignment and spindle organization during mitosis. May play a role in synapse formation during brain development., similarity:Belongs to the dynactin subunit 2 family.,subunit:Subunit of dynactin, a multiprotein complex associated with dynein. Interacts with BICD2 (By similarity) . Interacts with MAPRE1.,

**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. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2012],

matters needing attention

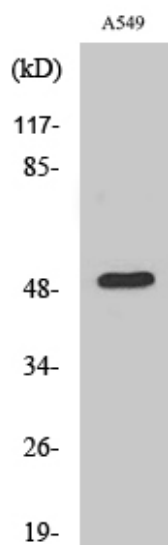
Avoid repeated freezing and thawing!

Usage suggestions

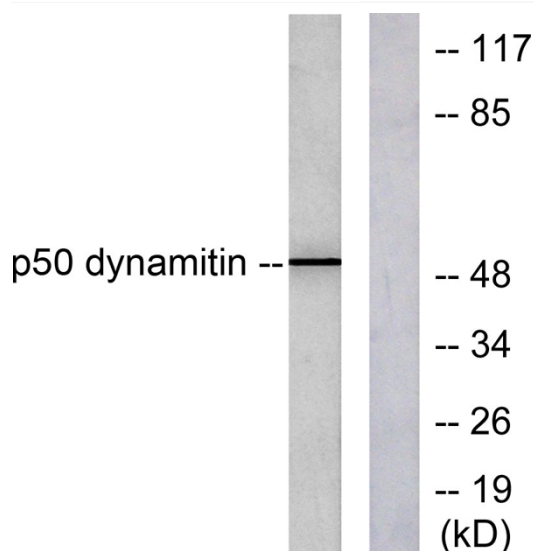
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



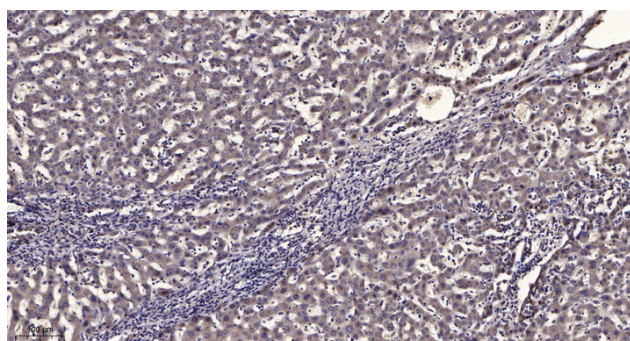
Products Images



Western Blot analysis of various cells using Dynactin 2 Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from A549 cells, using p50 Dynamitin Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).