

Dynamin I Polyclonal Antibody

Catalog No: YT1428

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Dynamin I

Fields: >>Phospholipase D signaling pathway;>>Endocytosis;>>Synaptic vesicle

cycle;>>Endocrine and other factor-regulated calcium reabsorption;>>Bacterial

invasion of epithelial cells

Q05193

P39053

Gene Name: DNM1

Protein Name: Dynamin-1

Human Gene Id: 1759

Human Swiss Prot

No:

Mouse Gene Id: 13429

Mouse Swiss Prot

No:

Rat Gene Id: 140694

Rat Swiss Prot No: P21575

Immunogen : The antiserum was produced against synthesized peptide derived from human

Dynamin-1. AA range:740-789

Specificity: Dynamin I Polyclonal Antibody detects endogenous levels of Dynamin I protein.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 97kD

Cell Pathway : Endocytosis; Fc gamma R-mediated phagocytosis;

Background: dynamin 1(DNM1) Homo sapiens This gene encodes a member of the dynamin

subfamily of GTP-binding proteins. The encoded protein possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins act as binding partners for the encoded protein, which can also self-assemble leading to stimulation of GTPase

activity. More than sixty highly conserved copies of the 3' region of this gene are found elsewhere in the genome, particularly on chromosomes Y and 15. Alternatively spliced transcript variants encoding different isoforms have been

described. [provided by RefSeq, Jul 2008],

Function: catalytic activity:GTP + H(2)O = GDP + phosphate.,function:Microtubule-

associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Most probably involved in vesicular

trafficking processes, in particular endocytosis., similarity: Belongs to the dynamin

family., similarity: Contains 1 GED domain., similarity: Contains 1 PH

domain., subcellular location: Microtubule-associated., subunit: Interacts with CAV1

and SH3GLB1. Binds SH3GL1, SH3GL2 and SH3GL3.,

Subcellular Location:

Cytoplasm . Cytoplasm, cytoskeleton . Microtubule-associated.

Expression : Brain, Platelet, PNS,

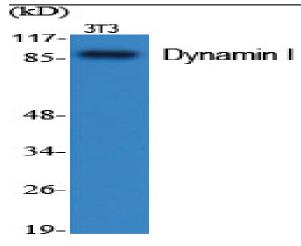
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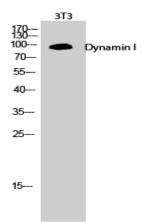
Host: Rabbit

Modifications: Unmodified

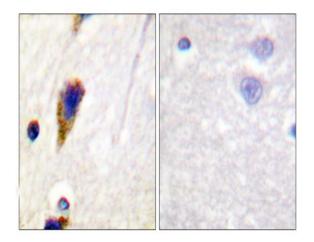
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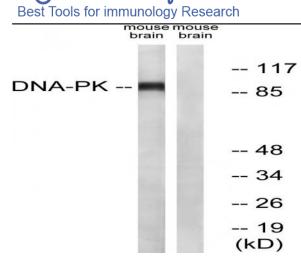
Western Blot analysis of various cells using Dynamin I Polyclonal Antibody



Western Blot analysis of 3T3 cells using Dynamin I Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Dynamin-1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from mouse brain, using Dynamin-1 Antibody. The lane on the right is blocked with the synthesized peptide.