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#2342 Store at -20C

Dynamin 1/2 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit	UniProt ID: #Q05193, #P50570	Entrez-Gene Id: 1759, 1785
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:30

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Dynamin 1/2 Antibody detects endogenous levels of total dynamin protein. The antibody does not recognize the related dynamin-like protein DLP.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr231 of human dynamin. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Dynamin is a family of large GTPases that has been implicated in the formation of vesicles of both the endocytotic and secretory processes (1). Dynamin plays an important role in the internalization of cell surface receptors, a process that attenuates the response to extracellular signals. It has been illustrated that dynamin interacts with signaling proteins such as Src, PLCy, PKC and G-proteins. PKC and Src phosphorylate dynamin, and its phosphorylation may regulate the endocytosis of cell surface receptors (2,3).

Background References

1. McNiven, M.A. et al. (2000) *Trends Biochem. Sci.* 25, 115-120.
2. Powell, K.A. et al. (2000) *J. Biol. Chem.* 275, 11610-11617.
3. Ahn, S. et al. (1999) *J. Biol. Chem.* 274, 1185-1188.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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