

#4565 Store at -20C

Dynamin-I (3G4B6) Mouse mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	100	Mouse IgG2a	#Q05193	1759

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Dynamin-I (3G4B6) Mouse mAb detects endogenous levels of total dynamin-I protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant carboxy-terminal fragment of human dynamin-I.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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