

Endophilin-1 (E1E6Q) Rabbit mAb

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Applications: W, IP, IF-IC	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 41	Source/Isotype: Rabbit IgG	UniProt ID: #Q99962	Entrez-Gene Id: 6456
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
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

Endophilin-1 (E1E6Q) Rabbit mAb recognizes endogenous levels of total endophilin-1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly268 of human endophilin-1 protein.

Background

Endophilin proteins are part of a large family of Bin/Amphiphysin/Rvs (BAR) domain proteins that are involved in cell membrane remodeling (1). The endophilins are encoded by five genes, which produce endophilin A 1-3 and B 1-2 (2). Endophilins are involved in many cellular mechanisms, such as synaptic vesicle recycling, receptor trafficking, and membrane remodeling processes (2). Research studies indicate that endophilin 1 (endophilin A1, SH3GL2) can induce different membrane shapes (3) and participate in the morphogenesis of dendritic spines (4). Endophilin 1 is also involved in regulating blood brain barrier permeability via the EGFR-JNK pathway (5).

Background References

1. Safari, F. and Suetsugu, S. (2012) *Membranes (Basel)* 2, 91-117.
2. Kjaerulf, O. et al. (2011) *Cell Biochem Biophys* 60, 137-54.
3. Ambroso, M.R. et al. (2014) *Proc Natl Acad Sci U S A* 111, 6982-7.
4. Yang, Y. et al. (2015) *Cell Res* 25, 496-516.
5. Chen, L. et al. (2015) *Brain Res* 1606, 44-53.

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 **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse

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