

**Anti-Dynamin 1 (pS774) Antibody**  
**Rabbit polyclonal antibody to Dynamin 1 (pS774)**  
**Catalog # AP59540**

### Specification

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#### Anti-Dynamin 1 (pS774) Antibody - Product Information

Application	WB
Primary Accession	<a href="#">O05193</a>
Other Accession	<a href="#">P39053</a>
Reactivity	Human, Mouse, Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97408

#### Anti-Dynamin 1 (pS774) Antibody - Additional Information

**Gene ID** 1759

#### Other Names

DNM; Dynamin-1

#### Target/Specificity

Recognizes endogenous levels of Dynamin 1 (pS774) protein.

#### Dilution

WB~~WB (1/500 - 1/1000)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### Anti-Dynamin 1 (pS774) Antibody - Protein Information

**Name** DNM1 ([HGNC:2972](#))

**Synonyms** DNM

#### Function

Catalyzes the hydrolysis of GTP and utilizes this energy to mediate vesicle scission and participates in many forms of endocytosis, such as clathrin-mediated endocytosis or synaptic vesicle endocytosis as well as rapid endocytosis (RE) (PubMed:[15703209](http://www.uniprot.org/citations/15703209)</a>, PubMed:[20428113](http://www.uniprot.org/citations/20428113)</a>, PubMed:[29668686](http://www.uniprot.org/citations/29668686)</a>, PubMed:[8101525](http://www.uniprot.org/citations/8101525)</a>, PubMed:<a

[8910402](http://www.uniprot.org/citations/8910402), PubMed: [9362482](http://www.uniprot.org/citations/9362482)). Associates to the membrane, through lipid binding, and self-assembles into rings and stacks of interconnected rings through oligomerization to form a helical polymer around the vesicle membrane leading to constriction of invaginated coated pits around their necks (PubMed: [30069048](http://www.uniprot.org/citations/30069048), PubMed: [7877694](http://www.uniprot.org/citations/7877694), PubMed: [9922133](http://www.uniprot.org/citations/9922133)). Self-assembly of the helical polymer induces membrane tubules narrowing until the polymer reaches a length sufficient to trigger GTP hydrolysis (PubMed: [19084269](http://www.uniprot.org/citations/19084269)). Depending on the curvature imposed on the tubules, membrane detachment from the helical polymer upon GTP hydrolysis can cause spontaneous hemifission followed by complete fission (PubMed: [19084269](http://www.uniprot.org/citations/19084269)). May play a role in regulating early stages of clathrin-mediated endocytosis in non-neuronal cells through its activation by dephosphorylation via the signaling downstream of EGFR (PubMed: [29668686](http://www.uniprot.org/citations/29668686)). Controls vesicle size at a step before fission, during formation of membrane pits, at hippocampal synapses (By similarity). Controls plastic adaptation of the synaptic vesicle recycling machinery to high levels of activity (By similarity). Mediates rapid endocytosis (RE), a Ca(2+)-dependent and clathrin- and K(+)-independent process in chromaffin cells (By similarity). Microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP (By similarity). Through its interaction with DNAJC6, acts during the early steps of clathrin-coated vesicle (CCV) formation (PubMed: [12791276](http://www.uniprot.org/citations/12791276)).

#### Cellular Location

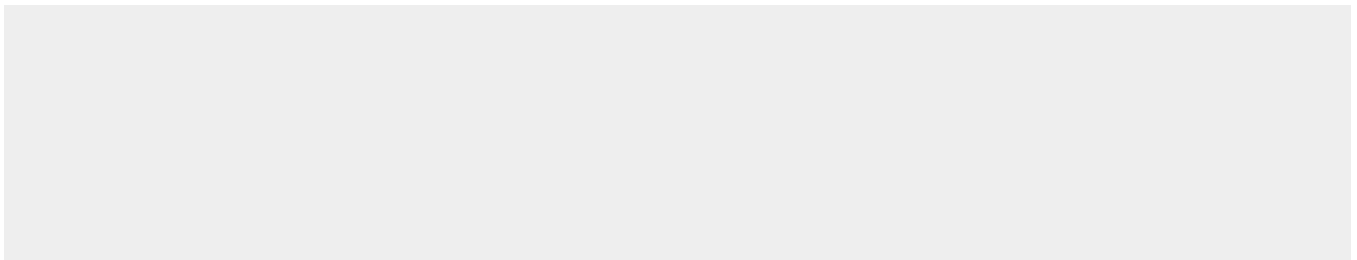
Cell membrane. Membrane, clathrin-coated pit. Cytoplasmic vesicle {ECO:0000250|UniProtKB:P21575, ECO:0000250|UniProtKB:P39053} Presynapse {ECO:0000250|UniProtKB:P21575}. Cytoplasmic vesicle, secretory vesicle, chromaffin granule {ECO:0000250|UniProtKB:Q08DF4} Note=Associated to the membrane in a helical polymer shape in a GTP bound state (PubMed:30069048). Transiently recruited to endocytic clathrin-coated pits (CCPs) at a late stage of clathrin-coated vesicle (CCV) formation (PubMed:15703209).

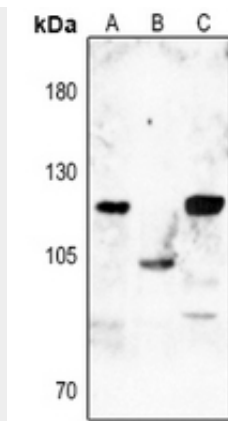
#### Anti-Dynamin 1 (pS774) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-Dynamin 1 (pS774) Antibody - Images





Western blot analysis of Dynamin 1 (pS774) expression in mouse brain (A), mouse kidney (B), rat brain (C) whole cell lysates.

#### **Anti-Dynamin 1 (pS774) Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Dynamin 1. The exact sequence is proprietary.