

## Product datasheet for **AP17991PU-N**

### Dynamin 3 (DNM3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/100-1/500. Flow Cytometry: 1/10-1/50. Immunohistochemistry: 1/50-1/100.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide selected from the Center region of Human Dynamin-3 (DNM3).
Specificity:	This antibody detects Dynamin-3 (DNM3).
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	dynamin 3
Database Link:	<a href="#">Entrez Gene 26052 Human Q9UQ16</a>



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**Background:**

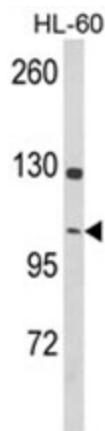
Dynamin 3 is a microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Dynamin 3 is most probably involved in vesicular trafficking processes, in particular endocytosis. The dynamins are a family of 100 kDa GTPases transcribed from at least three separate genes. At least four mRNA splice variants for each dynamin have been described. Dynamins contain several conserved regions including the conserved, amino-terminal GTPase domain, a centrally located membrane-binding plekstrin homology domain (PHD), and a coiled-coil region located in front of a proline-rich domain (PRD). The PRD is thought to mediate interactions between dynamin and numerous other cellular proteins. Dynamin 1 is expressed exclusively in neurons, Dynamin 2 is ubiquitously expressed, and Dynamin 3 is thought to be restricted to expression in the brain, testis, heart, and lung. The dynamins participate in the cellular process of clathrin-mediated and fluid-phase endocytosis.

**Synonyms:**

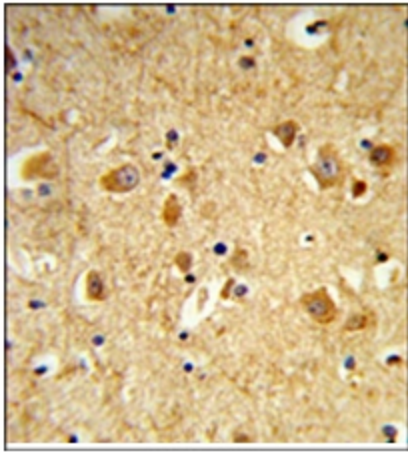
DNM3, KIAA0820, T-dynamin

**Protein Pathways:**

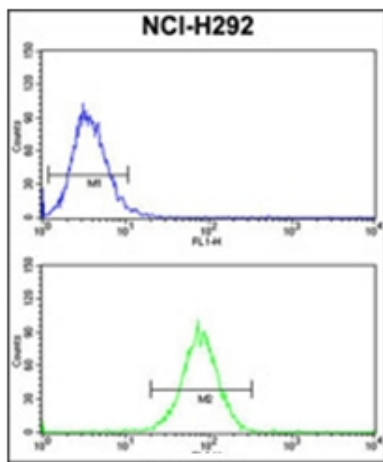
Endocytosis, Fc gamma R-mediated phagocytosis

**Product images:**

Western blot analysis of Dynamin 3 Antibody (Center) in HL-60 cell line lysates (35ug/lane). Dynamin 3 (arrow) was detected using the purified Pab.



Dynamin-3 antibody staining of Formalin-Fixed, Paraffin-Embedded Human brain using Peroxidase-conjugated to the secondary antibody, followed by DAB staining. Clinical relevance has not been evaluated.



Dynamin-3 antibody Flow Cytometry analysis of NCI-H292 cells (Bottom Histogram) compared to a Negative Control cell (Top Histogram). FITC-conjugated Goat anti-Rabbit secondary antibodies were used for the analysis.