



# Mouse anti-Mouse Adaptin $\gamma$ monoclonal antibody, clone 99 (CABT-B9174)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Immunogen	Mouse Adaptin $\gamma$ aa. 642-821
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Rat, Human, Mouse, Dog
Clone	99
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IHC; IF; IP
Format	Liquid
Concentration	250 $\mu$ g/ml
Size	50 $\mu$ g, 150 $\mu$ g
Buffer	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.
Storage	Store undiluted at $-20^{\circ}\text{C}$ .

## BACKGROUND

Introduction	Sorting of integral membrane proteins at various stages of the endocytic and secretory
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pathways is mediated by vesicular trafficking between a variety of organelles. Two sorting signals are tyrosine-based and dileucine-based signals that interact with heterotetrameric adaptor protein complexes (AP-1, AP-2, AP-3, and AP-4), which are associated with the vesicle coats. These coatomers contain two large Adaptin proteins ( $\gamma$ ,  $\alpha$ ,  $\delta$ , or  $\epsilon$  and  $\beta 1$ ,  $\beta 2$ ,  $\beta 3$ , or  $\beta 4$ , respectively) that are noncovalently linked to one medium chain ( $\mu 1$ ,  $\mu 2$ ,  $\mu 3$ , or  $\mu 4$ ) and one small chain ( $\sigma 1$ ,  $\sigma 2$ ,  $\sigma 3$ , or  $\sigma 4$ ). The AP-1 and AP-3 complexes are involved in protein sorting from the TGN and endosomes, while AP-2 adaptor complexes are involved in clathrin-mediated endocytosis. Adaptin  $\gamma$  shows more homology with Adaptin  $\alpha$  than with Adaptin  $\beta$ . The conserved regions between Adaptins  $\gamma$  and  $\alpha$  could be important for binding to other components of the AP-1 and AP-2 complexes, respectively.

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**Keywords**

AP1G1; adaptor-related protein complex 1, gamma 1 subunit; ADTG; CLAPG1; AP-1 complex subunit gamma-1; gamma adaptin; gamma1-adaptin; golgi adaptor HA1/AP1 adaptin gamma subunit; adaptor protein complex AP-1 subunit gamma-1; golgi adaptor HA1/AP1 adaptin subunit gamma-1; adapter-related protein complex 1 subunit gamma-1; adaptor-related protein complex 1 subunit gamma-1; clathrin assembly protein complex 1 gamma large chain; clathrin assembly protein complex 1 gamma-1 large chain; clathrin-associated/assembly/adaptor protein, large, gamma 1;

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## GENE INFORMATION

**Entrez Gene ID**[164](#)**UniProt ID**[O43747](#)

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