



Mouse anti-Human β -NAP monoclonal antibody, clone 29 (CABT-B9366)

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

PRODUCT INFORMATION

Immunogen	Human β -NAP aa. 839-1036
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Rat, Mouse
Clone	29
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	250 μ g/ml
Size	50 μ g
Buffer	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.
Storage	Store undiluted at -20°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 Adapton proteins (γ , α , δ , or ϵ 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. Two AP-3 complexes have been identified as a neuronal complex and a ubiquitously-expressed complex. The neuronal AP-3 complex contains Adapton $\beta 3B$ (β -NAP), which has 61% identify with Adapton $\beta 3A$ found in the ubiquitously-expressed AP-3 complex, and 30% identity with Adaptons $\beta 1$ and $\beta 2$ found in the AP-1 and AP-2 complexes.

Keywords	AP3B2; adaptor-related protein complex 3, beta 2 subunit; NAPTB; AP-3 complex subunit beta-2; beta-3B-adapton; Neuronal adaptin-like protein, beta-subunit; adaptor protein complex AP-3 subunit beta-2; neuron-specific vesicle coat protein beta-NAP; adapter-related protein complex 3 subunit beta-2; adaptor-related protein complex 3 subunit beta-2; clathrin assembly protein complex 3 beta-2 large chain;
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GENE INFORMATION

Entrez Gene ID [8120](#)

UniProt ID [Q13367](#)