Technical Data Sheet

Purified Mouse Anti-Adaptin ε

Product Information

612019 **Material Number:** 150 µg **Concentration:** $250 \mu g/ml$ 32/Adaptin ε Clone:

Human Adaptin ε aa. 685-793 Immunogen:

Mouse IgG1 Isotype: QC Testing: Human Reactivity:

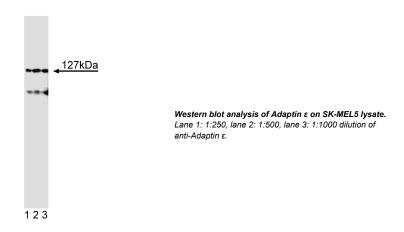
127 kDa Target MW:

Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

azide.

Description

Sorting of integral membrane proteins 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 (γ , α , σ , ϵ and β 1, β 2, β 3, β 4 respectively) that are noncovalently linked to one medium chain (μ 1, μ 2, μ 3, μ 4 respectively) and one small chain (σ 1, σ 2, σ 3, σ 4 respectively). 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. AP-4 is associated with non-clathrin coated vesicles in the region of the TGN. This localization is disrupted by brefeldin A, indicating that AP-4 membrane attachment is regulated by small GTPases. The μ4 subunit of the AP-4 complex interacts with tyrosine-based signals on LAMP-2 during targeting to the endosomal-lysosomal system. Thus, AP-4 is a less abundant AP complex that may be important for vesicle trafficking from the Golgi to the endosomal-lysosomal system.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

Application Notes

Application

- :	Phienton	
	Western blot	Routinely Tested
	Immunofluorescence	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml .

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Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Aguilar RC, Boehm M, Gorshkova I. Signal-binding specificity of the mu4 subunit of the adaptor protein complex AP-4. *J Biol Chem.* 2001; 276(16):13145-13152. (Biology)

Dell'Angelica EC, Mullins C, Bonifacino JS. AP-4, a novel protein complex related to clathrin adaptors. *J Biol Chem.* 1999; 274(11):7278-7285.(Biology) Hirst J, Bright NA, Rous B, Robinson MS. Characterization of a fourth adaptor-related protein complex. *Mol Biol Cell.* 1999; 10(8):2787-2802.(Biology)

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