

产品名称: AP2M1 (5T7) Rabbit Monoclonal Antibody
产品货号: AMRe06975



产品概述 (Summary)

产品名称 (Production Name)	AP2M1 (5T7) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	AP2M1
别名 (Alternative Names)	AP-2 complex subunit mu; AP-2 mu chain; Adapter-related protein complex 2 subunit mu; Adaptin-mu2; Clathrin assembly protein complex 2 mu medium chain; Clathrin coat assembly protein AP50;
基因 ID (Gene ID)	1173.0
蛋白 ID (SwissProt ID)	Q96CW1.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000
蛋白分子量 (Molecular Weight)	50kDa

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研究背景 (Background)

Adaptins are heterotetrameric subunits of adaptors, which are complexes involved in the formation of Clathrin-coated pits for vesicle-mediated endocytosis. Involved in clathrin-dependent endocytosis in which cargo proteins are incorporated into vesicles surrounded by clathrin (clathrin-coated vesicles, CCVs) which are destined for fusion with the early endosome.

Component of the adaptor protein complex 2 (AP-2) (PubMed:12694563, PubMed:12952941, PubMed:14745134, PubMed:14985334, PubMed:15473838, PubMed:31104773). Adaptor protein complexes function in protein transport via transport vesicles in different membrane traffic pathways (PubMed:12694563, PubMed:12952941, PubMed:14745134, PubMed:14985334, PubMed:15473838, PubMed:31104773). Adaptor protein complexes are vesicle coat components and appear to be involved in cargo selection and vesicle formation (PubMed:12694563, PubMed:12952941, PubMed:14745134, PubMed:14985334, PubMed:15473838, PubMed:31104773). AP-2 is involved in clathrin-dependent endocytosis in which cargo proteins are incorporated into vesicles surrounded by clathrin (clathrin-coated vesicles, CCVs) which are destined for fusion with the early endosome (PubMed:12694563, PubMed:12952941, PubMed:14745134, PubMed:14985334, PubMed:15473838, PubMed:31104773). The clathrin lattice serves as a mechanical scaffold but is itself unable to bind directly to membrane components (PubMed:12694563, PubMed:12952941, PubMed:14745134, PubMed:14985334, PubMed:15473838, PubMed:31104773).

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[14745134](http://www.uniprot.org/citations/14745134) PubMed: [14985334](http://www.uniprot.org/citations/14985334) PubMed: [15473838](http://www.uniprot.org/citations/15473838) PubMed: [31104773](http://www.uniprot.org/citations/31104773)). Clathrin-associated adaptor protein (AP) complexes which can bind directly to both the clathrin lattice and to the lipid and protein components of membranes are considered to be the major clathrin adaptors contributing the CCV formation (PubMed: [12694563](http://www.uniprot.org/citations/12694563) PubMed: [12952941](http://www.uniprot.org/citations/12952941) PubMed: [14745134](http://www.uniprot.org/citations/14745134) PubMed: [14985334](http://www.uniprot.org/citations/14985334) PubMed: [15473838](http://www.uniprot.org/citations/15473838) PubMed: [31104773](http://www.uniprot.org/citations/31104773)). AP-2 also serves as a cargo receptor to selectively sort the membrane proteins involved in receptor-mediated endocytosis (PubMed: [16581796](http://www.uniprot.org/citations/16581796)). AP-2 seems to play a role in the recycling of synaptic vesicle membranes from the presynaptic surface (PubMed: [12694563](http://www.uniprot.org/citations/12694563) PubMed: [12952941](http://www.uniprot.org/citations/12952941) PubMed: [14745134](http://www.uniprot.org/citations/14745134) PubMed: [14985334](http://www.uniprot.org/citations/14985334) PubMed: [15473838](http://www.uniprot.org/citations/15473838) PubMed: [31104773](http://www.uniprot.org/citations/31104773)). AP-2 recognizes Y-X-X-[FILMV] (Y-X-X-Phi) and [ED]-X-X-X-L-[LI] endocytosis signal motifs within the cytosolic tails of transmembrane cargo molecules (By similarity). AP-2 may also play a role in maintaining normal post-endocytic trafficking through the ARF6-regulated, non-clathrin pathway (PubMed: [19033387](http://www.uniprot.org/citations/19033387)). During long-term potentiation in hippocampal neurons, AP-2 is responsible for the endocytosis of ADAM10 (PubMed: [23676497](http://www.uniprot.org/citations/23676497)). The AP-2 mu subunit binds to transmembrane cargo proteins; it recognizes the Y-X-X-Phi motifs (By similarity). The surface region interacting with to the Y-X-X-Phi motif is inaccessible in cytosolic AP-2, but becomes accessible through a conformational change following phosphorylation of AP-2 mu subunit at Thr-156 in membrane-associated AP-2 (PubMed: [11877457](http://www.uniprot.org/citations/11877457)). The membrane-specific phosphorylation event appears to involve assembled clathrin which activates the AP-2 mu kinase AAK1 (PubMed: [11877457](http://www.uniprot.org/citations/11877457)). Plays a role in endocytosis of frizzled family members upon Wnt signaling (By similarity).

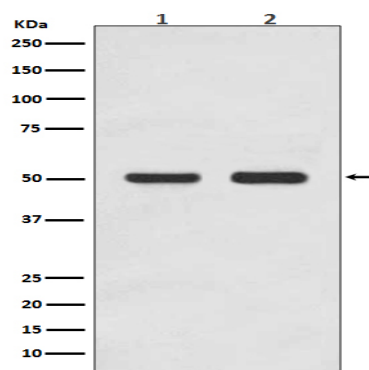
研究领域 (Research Area)

Signal Transduction

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图片 (Image Data)



Western blot analysis of AP2M1 expression in (1) HEK293 cell lysate; (2) MCF-7 cell lysate.

注意事项 (Note)

For research use only .