#3843 Store at -200

Phospho-AP2M1 (Thr156) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity:	Sensitivity: Endogenous	MW (kDa): 50	Source: Rabbit	UniProt ID: #Q96CW1	Entrez-Gene Id 1173	
Product Usage Information							
	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
Storage	20°C. Do not aliquot the antibody.			7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at –			
Specificity / Sensit	city / Sensitivity Phospho-AP2M1 (Thr156) Antibody determine phosphorylated at Thr156.			cts endogenous levels of AP2M1 protein only when			
Species predicted react based on 100 sequence homolog)%	Mouse, Rat, Monkey					

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr156 of human AP2M1. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The AP-2 coat assembly protein complex is an important component of clathrin-coated pits involved in receptor-mediated endocytosis at the plasma membrane (1-3). Each AP-2 heterotetramer is composed of α , β , μ , and σ protein subunits. The 50 kDa μ subunit (AP-2 μ , AP2M1) is located at the core of the AP-2 complex and mediates interaction between the cargo protein and the clathrin-coated pit (1-4). The carboxy-terminal AP2M1 region recognizes the tyrosine-based, endocytotic sorting motif YXX ϕ found in cargo proteins and helps to bring the cargo protein to the clathrin-coated pit. Non-canonical, tyrosine-based endocytotic sorting signals can also promote interaction between cargo proteins and AP2M1 (5,6). AP2M1 plays an essential role in molecular signaling as it couples receptor-mediated endocytosis and pathways involving membrane receptors (7-9), matrix metalloproteinases (10), and ion channel proteins (11). Phosphorylation of specific AP2M1 residues and binding of lipids to this adaptor protein can regulate AP2M1 activity (12,13). Phosphorylation of AP2M1 at Thr156 by adaptor-associated kinase 1 (AAK1) stimulates affinity binding of AP2M1 to cargo protein signals (14).

Background References

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- 14. Conner, S.D. and Schmid, S.L. (2002) *J Cell Biol* 156, 921-9.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

Phospho-AP2M1 (Thr156) Antibody (#3843) Datasheet Without Images Cell Signaling Technology

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

Cross-Reactivity Key

WB: Western Blotting

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dq: doq Pq: piq Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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