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Cleaved GGA3 (Asp313) (D16H3) Rabbit mAb



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

Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NZ52	Entrez-Gene Id: 23163		
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
		Cleaved GGA3 (Asp313) (D16H3) Rabbit mAb recognizes endogenous levels of GGA3 protein only when cleaved at Asp313.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp313 of human GGA3 protein.				prresponding to		
Background		GGA3 is a member of the GGA family of proteins which also includes GGA1 and GGA2. These proteins consist of four distinct segments: a VHS domain that binds the di-leucine sorting signal DXXLL; a GAT domain that binds Arf-GTP; a hinge region that recruits clathrin; and a GAE domain that has sequence similarity to y-adaptin and recruits a number of proteins. Arf1-GTPase recruits GGA3 to the trans-Golgi network. GGAs sort acid hydrolases to the lysosome and are involved in transporting proteins containing the DXXLL signal from the Golgi complex to the endosome (1). During apoptosis or cerebral ischemia, GGA3 is cleaved by caspase-3 at Asp313, reducing GGA3 levels and lysosomal degradation of β -secretase (BACE). The resulting elevated amount and activity of BACE plays a role in amyloid- β (A β) production, consistent with BACE elevation and A β accumulation in Alzheimer's Disease (2).						
Background R	eferences	1. Bonifacino, J.S. (2004) 2. Tesco, G. et al. (2007)	,					
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer	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 K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human Mk: Monkey						
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