

## GABARAPL1 (D5R9Y) XP® Rabbit mAb



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

<b>Applications:</b> W, IF-IC, FC-FP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 14, 16	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q9H0R8	Entrez-Gene Id: 23710
Product Usage Information		<b>Application</b> Western Blotting Immunofluorescence Flow Cytometry (Fixed		istry)		<b>Dilution</b> 1:1000 1:200 1:100
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.				
		For a carrier free (BSA and azide free) version of this product see product #37737.				
Specificity/Sensitivity		GABARAPL1 (D5R9Y) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total GABARAPL1 protein. This antibody does not cross react with other GABARAP family members.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human GABARAPL1 protein.				
Background		which was originally of trafficking to the plass protein light chain 3 (membranes following GABARAP is cleaved a phosphatidylethanola I to a type II membra involves cleavage by Atg7 and Atg3 (7,8). Gestrogen inducible ge Gamma-aminobutyric expressed in the CNS associated with proginal protein proginal proginal protein proginal proginal protein proginal protein proginal protein proginal protein proginal protein proginal protein protein protein proginal protein proginal protein proginal protein prot	discovered as a prot ma membrane (1). If LC3) and GATE-16 (C3) autophagic stimuli it its carboxyl termir amine or phosphatic ne bound form invo Atg4 family member GABARAPL1/GEC1, a tene, and is also asso as compared to othnosis of some cance PL1 expression in bi	ARAP) is an Atg8 family pein associated with the Proteins in this family, in GABARAPL2), become income such as starvation (2). In the such as starvation (2). In the such as starvation (2). It is proceed in autophagosome (5,6) followed by conjuprotein that is highly reciated with autophagos ciated protein-like 1 (GA er family members (12-rs, including hepatocellicast cancer cells attenual commoting activities (17).	GABA <sub>A</sub> receptor recicluding microtubul corporated into the like the other famil ugation by either or essing converts GA biogenesis. Procesugation by the E1 a lated to GABARAP, omes (9-11).  BARAPL1) appears 14). Expression of Cular and breast can lates autophagic fluctured.	gulating receptor le-associated autophagosomal y members, f the phospholipids BARAP from a type ssing of GABARAP nd E2 like enzymes was identified as an to be more highly GABARAPL1 is cer (15,16).
Background References		1. Wang, H. et al. (1999) <i>Nature</i> 397, 69-72. 2. Shpilka, T. et al. (2011) <i>Genome Biol</i> 12, 226. 3. Kabeya, Y. et al. (2006) <i>J Eiol Chem</i> 281, 3017-24. 5. Tanida, I. et al. (2004) <i>J Biol Chem</i> 279, 36268-76. 6. Hemelaar, J. et al. (2003) <i>J Biol Chem</i> 278, 51841-50. 7. Tanida, I. et al. (2001) <i>J Biol Chem</i> 276, 1701-6. 8. Tanida, I. et al. (2002) <i>J Biol Chem</i> 277, 13739-44. 9. Chakrama, F.Z. et al. (2010) <i>Autophagy</i> 6, 495-505. 10. Pellerin, I. et al. (1993) <i>Mol Cell Endocrinol</i> 90, R17-21. 11. Vernier-Magnin, S. et al. (2001) <i>Biochem Biophys Res Commun</i> 284, 118-25. 12. Nemos, C. et al. (2003) <i>Brain Res Mol Brain Res</i> 119, 216-9. 13. Wang, Y. et al. (2006) <i>Neuroscience</i> 140, 1265-76. 14. Le Grand, J.N. et al. (2013) <i>PLoS One</i> 8, e63133. 15. Liu, C. et al. (2014) <i>Oncol Rep</i> 31, 2043-8. 16. Berthier, A. et al. (2010) <i>Br J Cancer</i> 102, 1024-31.				

17. Boyer-Guittaut, M. et al. (2014) Autophagy 10, 986-1003.

Western Blot 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 Key W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry

(Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat

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