GABARAPL1 (D5R9Y) XP® Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

| Applications: W, IF-IC, FC-FP | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 14, 16 | Source/Isotype: Rabbit IgG | UniProt ID: #Q9H0R8 | Entrez-Gene Id 23710 |
|---|----------------------|--|--|--|---|--|
| Product Usage Information | | Application Western Blotting Immunofluorescence Flow Cytometry (Fixe | | iistry) | | Dilution 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 [®] 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 trafficking to the plas 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). Cestrogen inducible go Gamma-aminobutyri expressed in the CNS associated with prog Inhibition of GABARA | discovered as a protoma membrane (1). If (LC3) and GATE-16 (Cg autophagic stimuliat its carboxyl terminamine or phosphatic amine or phosphatic and bound form invocatg4 family member GABARAPL1/GEC1, area, and is also assoc acid receptor-asso is as compared to othe nosis of some cance apple 19 procession in but the same and the same cance apple 19. | ARAP) is an Atg8 family pein associated with the proteins in this family, in GABARAPL2), become indicated as starvation (2). In the protein (3,4). This proceed in autophagosome (5,6) followed by conjugated in autophagosome protein that is highly recitated with autophagos ciated protein-like 1 (GA per family members (12-rrs, including hepatocelline ast cancer cells attenual commoting activities (17). | GABA _A receptor reconcluding microtubu corporated into the Like the other famil ugation by either of essing converts GA biogenesis. Procesugation by the E1 a dated to GABARAP, comes (9-11). UBARAPL1) appears 14). Expression of (ular and breast can lates autophagic flu | gulating receptor le-associated a autophagosomal y members, f the phospholipids BARAP from a type ssing of GABARAP nd E2 like enzymes was identified as ar to be more highly GABARAPL1 is icer (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. (2004) <i>J Cell Sci</i> 117, 2805-12. 4. Sou, Y.S. et al. (2006) <i>J Biol 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

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for

more information.

Limited Uses Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST,

the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com For Research Use Only. Not for Use in Diagnostic Procedures.