e at -20C	GAP43 (D9C8) Rabbit mAb		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
പ		Support:	877-678-TECH (8324)		
#8945		Web:	info@cellsignal.com cellsignal.com		
#	3 Т	rask Lane Danvers Ma	ssachusetts 01923 USA		

For Research Use Only. Not for Use in Diagnostic Procedures. Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: UniProt ID:

Applications: WB, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 38, 43	Source/Isotype: Rabbit IgG	UniProt ID: #P17677	Entrez-Gene Id: 2596		
Product Usage	Aj	oplication			Dilution			
Information	W	estern Blotting			1:1000			
	Im	munoprecipitation			1:50			
	Im	imunofluorescence (Frozen)		1:200 - 1:40	00		
Storage	StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 m0.02% sodium azide. Store at -20°C. Do not aliquo					erol and less than		
	For	a carrier free (BSA	and azide free) v	ersion of this product se	e product #42786.			
Specificity / Sensi		GAP43 (D9C8) Rabbit mAb recognizes endogenous levels of total GAP43 protein. Low levels of non- specific nuclear labeling may be observed by immunocytochemistry (ICC).						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys30 of human GAP43 protein.						
Background		GAP43 is a nervous system specific, growth-associated protein enriched in growth cones and areas of high plasticity (1). Phosphorylation of GAP43 at Ser41 by PKC is regulated by intracellular Ca ²⁺ and affects the ability of GAP43 to bind calmodulin (2,3). GAP43 is integral to growth cone formation, neurite outgrowth, and the development of a functional cerebral cortex (4,5). Aberrant GAP43 expression can be seen in patients diagnosed with schizophrenia and Alzheimer's Disease (6,7).						
Background Refe	2. [3. (4. / 5. s 6. s	Biewenga, J.E. et al. Dekker, L.V. and Parl Chapman, E.R. et al. Aigner, L. and Caron Shen, Y. et al. (2008) Sower, A.C. et al. (19 Ie la Monte, S.M. et	ker, P.J. (1997) J (1991) J Biol Ch i, P. (1993) J Cell Cerebellum 7, 4 195) Mol Chem N	Biol Chem 272, 12747- em 266, 207-13. Biol 123, 417-29. 51-66. europathol 24, 1-11.	53.			
Species Reactivity	y Spe	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
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	WB	WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)						
Cross-Reactivity Key		 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 Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 						
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Alexa Fluor is a registered trademark of Life Technologies Corporation. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						
Limited Uses	follo cone	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.						

GAP43 (D9C8) Rabbit mAb (#8945) Datasheet Without Images Cell Signaling Technology

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.