## GAP43 (D9C8) Rabbit mAb





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Applications: W, IP, IF-F	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 38, 43	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P17677	Entrez-Gene Id: 2596		
Product Usage Information Storage		ApplicationDilutionWestern Blotting1:1000Immunoprecipitation1:50Immunofluorescence (Frozen)1:200 - 1:400Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less that0.02% sodium azide. Store at -20°C. Do not aliguot the antibody.						
		For a carrier free (BSA and azide free) version of this product see product #42786.						
Specificity/Sen	sitivity	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 / Purific	cation	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 <sup>2+</sup> 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 Re	eferences	1. Biewenga, J.E. et al. 2. Dekker, L.V. and Parl 3. Chapman, E.R. et al. 4. Aigner, L. and Caron 5. Shen, Y. et al. (2008) 6. Sower, A.C. et al. (19 7. de la Monte, S.M. et	<er, (1997)="" <i="" p.j.="">J Biol (1991) <i>J Biol Chem</i> i, P. (1993) <i>J Cell Bic</i> <i>Cerebellum</i> 7, 451 95) <i>Mol Chem Neu</i></er,>	Chem 272, 12747-53. 266, 207-13. b/ 123, 417-29. -66. ropathol 24, 1-11.				
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	<b>'estern Blot Buffer</b> IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/ TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					ז 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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