#5307 Store at -20C

GAP43 Antibody



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 38, 43	Source: Rabbit	UniProt ID: #P17677	Entrez-Gene Id: 2596
Product Usage Information	Ар	plication		Dilution		
	We	stern Blotting			1:1000	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensiti	ficity / Sensitivity GAP43 Antibody detects endogenous levels of total GAP protein.					
Source / Purificatio	resid		o terminus of huma	•	th a synthetic peptide co ntibodies are purified by	
Background	high the a outg	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 Refere	2. D 3. C 4. A 5. S 6. S	L. Biewenga, J.E. et al. (1996) <i>Acta Biochim Pol</i> 43, 327-38. 2. Dekker, L.V. and Parker, P.J. (1997) <i>J Biol Chem</i> 272, 12747-53. 3. Chapman, E.R. et al. (1991) <i>J Biol Chem</i> 266, 207-13. 4. Aigner, L. and Caroni, P. (1993) <i>J Cell Biol</i> 123, 417-29. 5. Shen, Y. et al. (2008) <i>Cerebellum</i> 7, 451-66. 6. Sower, A.C. et al. (1995) <i>Mol Chem Neuropathol</i> 24, 1-11. 7. de la Monte, S.M. et al. (1995) <i>Am J Pathol</i> 147, 934-46.				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western 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: Western Blotting

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

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