

#4456 Store at -20C

Nna1 Antibody



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 145	Source: Rabbit	UniProt ID: #Q9UPW5	Entrez-Gene Id: 23287
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Nna1 Antibody detects endogenous levels of total Nna1 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp1175 of human Nna1 protein. Antibodies are purified by protein A and peptide affinity chromatography	
Background	Nervous system nuclear protein induced by axotomy 1 (Nna1, AGTPBP1 or cytosolic carboxypeptidase-1) is related to zinc carboxypeptidases and contains an ATP/GTP binding motif, a basic and a bipartite nuclear localization signal. Nna1 expression is rapidly induced in motor neurons following axotomy and down-regulated following reinnervation, which is consistent with abundant Nna1 expression in differentiating neurons and the absence of Nna1 in CNS proliferative zones (1). Furthermore, Purkinje cell degeneration is characterized by adult onset neurodegeneration resulting from Nna1 gene mutations, implicating Nna1 in mechanisms common to degeneration and regeneration (2).	
Background References	1. Harris, A. et al. (2000) <i>Mol Cell Neurosci</i> 16, 578-96. 2. Fernandez-Gonzalez, A. et al. (2002) <i>Science</i> 295, 1904-6.	

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 IP: Immunoprecipitation
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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