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# Nna1 Antibody

Store at -20C  
#4456

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 145	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q9UPW5	<b>Entrez-Gene Id:</b> 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

- Harris, A. et al. (2000) *Mol Cell Neurosci* 16, 578-96.
- Fernandez-Gonzalez, A. et al. (2002) *Science* 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

**W:** Western Blotting **IP:** Immunoprecipitation

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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