

# Nova1 Rabbit mAb

Catalog # AP75818

## Product Information

Application	WB, IHC-P
Primary Accession	<a href="#">P51513</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	51727

## Additional Information

Gene ID	4857
Other Names	NOVA1
Dilution	WB~~1/500-1/1000 IHC-P~~N/A
Format	Liquid

## Protein Information

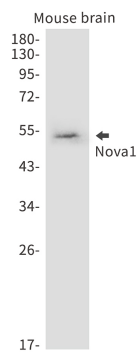
Name	NOVA1 ( <a href="#">HGNC:7886</a> )
Function	<p>Functions to regulate alternative splicing in neurons by binding pre-mRNA in a sequence-specific manner to activate exon inclusion or exclusion. It binds specifically to the sequences 5'-YCAAY- 3' and regulates splicing in only a subset of regulated exons (PubMed:<a href="#">10811881</a>). Binding to an exonic 5'-YCAAY-3' cluster changes the protein complexes assembled on pre-mRNA, blocking U1 snRNP binding and exon inclusion, whereas binding to an intronic 5'-YCAAY-3' cluster enhances spliceosome assembly and exon inclusion. Binding to 5'-YCAAY-3' clusters results in a local and asymmetric action to regulate spliceosome assembly and alternative splicing in neurons. Binding to an exonic 5'-YCAAY-3' cluster changed the protein complexes assembled on pre-mRNA, blocking U1 snRNP (small nuclear ribonucleoprotein) binding and exon inclusion, whereas binding to an intronic 5'-YCAAY-3' cluster enhanced spliceosome assembly and exon inclusion. With NOVA1, they perform unique biological functions in different brain areas and cell types. Autoregulates its own expression by acting as a splicing repressor. Acts to activate the inclusion of exon E3A in the glycine receptor alpha-2 chain and of exon E9 in gamma-aminobutyric-acid receptor gamma-2 subunit via a distal downstream UCAU-rich intronic splicing enhancer. Acts to regulate a novel glycine receptor alpha-2 chain splice variant (alpha-2N) in developing spinal cord (By similarity).</p>
Cellular Location	Nucleus {ECO:0000250 UniProtKB:Q9JKN6}.

**Tissue Location**

Expressed in cerebellum, brain stem, hippocampus, and frontal cortex.

**Images**

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