

Nova1 Rabbit mAb
Catalog # AP75818**Specification**

Nova1 Rabbit mAb - Product Information

Application	WB, IHC-P
Primary Accession	P51513
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	51727

Nova1 Rabbit mAb - Additional Information**Gene ID** 4857**Other Names**
NOVA1**Dilution**
WB~~1/500-1/1000
IHC-P~~N/A**Format**
Liquid**Nova1 Rabbit mAb - Protein Information****Name** NOVA1 ([HGNC:7886](#))**Function**

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:10811881). 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).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q9JKN6}.

Tissue Location

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

Nova1 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Nova1 Rabbit mAb - Images