

## RTN4 Antibody / Reticulon 4 / Nogo A (F53834)

Catalog No.	Formulation	Size
F53834-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F53834-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Predicted Reactivity</b>	Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity
<b>UniProt</b>	Q9NQC3
<b>Applications</b>	Western Blot : 1:1000-2000
<b>Limitations</b>	This RTN4 antibody is available for research use only.



Western blot testing of human brain lysate with RTN4 antibody at 1:2000. Predicted molecular weight ~130 kDa but may be observed at up to ~220 kDa.

### Description

Reticulon-4 is a developmental neurite growth regulatory factor with a role as a negative regulator of axon-axon adhesion and growth, and as a facilitator of neurite branching. Regulates neurite fasciculation, branching and extension in the developing nervous system. Involved in down-regulation of growth, stabilization of wiring and restriction of plasticity in the adult CNS. Regulates the radial migration of cortical neurons via an RTN4R-LINGO1 containing receptor complex (By similarity). Isoform 2 reduces the anti-apoptotic activity of Bcl-xl and Bcl-2. This is likely consecutive to their change in

subcellular location, from the mitochondria to the endoplasmic reticulum, after binding and sequestration. Isoform 2 and isoform 3 inhibit BACE1 activity and amyloid precursor protein processing.

## **Application Notes**

Titration of the RTN4 antibody may be required due to differences in protocols and substrate sensitivity.

## **Immunogen**

A portion of amino acids 28-58 from the human protein was used as the immunogen for the RTN4 antibody.

## **Storage**

Aliquot the RTN4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.