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Product datasheet for AP23267PU-N

Nogo A (RTN4) (Isoform 1) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, IP, WB
Recommended Dilution:	Western blot: At 1-2µg/ml with the appropriate system to detect Nogo-A in cells and tissues. Immunohistochemistry on paraffin sections: At 1-2µg/ml to detect Nogo-A in formalin fixed and paraffin embedded tissues. Boiling the sections is required. Immunocytochemistry. Immunprecipitation.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to the C-terminal of human Nogo-A
Specificity:	This antibody detects Reticulon-4 / RTN4 Isoform 1 at C-term. No cross reactivity with other proteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg Sodium Azide State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	reticulon 4
Database Link:	Entrez Gene 68585 MouseEntrez Gene 83765 RatEntrez Gene 57142 Human Q9NQC3

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Background: Human neurite outgrowth inhibitor (NOGO) cDNAs encodes 3 splice variants: NOGOA, NOGOB and NOGOC. The longest cDNA, designated NOGOA, has an open reading frame of 1192 amino acids. It is a potent inhibitor of neurite growth and an IN-1 antigen produced by oligodendrocytes, and may allow the generation of new reagents to enhance CNS regeneration and plasticity. Nogo-A, a member of the Reticulon family, is expressed by oligodendrocytes and associates primarily with the endoplasmic reticulum. The acidic amino terminus of Nogo-A is detected at the cytosolic face of cellular membranes and may contribute to inhibition of axon regeneration at sites of oligodendrocyte injury. A multivalent form of the N terminus of Nogo-A affects the morphology of both neurons and other cell types.

Synonyms: Foocen, Neurite outgrowth inhibitor, NOGO, Neuroendocrine-specific protein, NSP, Reticulon-5, KIAA0886

Protein Families: Transmembrane

Product images:

Western blot analysis of rat brain tissue lysis using NOGO-A antibody