

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat Nogo-A in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 387521
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	KLH-coupled rat Nogo-A synthetic peptide SYDSIKLEPENPPPYEEA (aa 623-640) Accession # Q9JK11
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Nogo-A, also known as Reticulon-4, is the longest of four splice variants of Nogo. It is a CNS myelin-associated neurite outgrowth inhibitor that is highly expressed in oligodendrocytes. Nogo-A is synthesized as an 1163 amino acid protein and lacks a signal peptide. Within conserved C-terminal reticulon homology domain (RHD), two transmembrane domains, which are separated by a 66 amino acid extracellular loop, exist. Both the N-terminal domain and the 66 amino acid domain (Nogo-66) can be detected on the cell surface and show neurite outgrowth inhibitory activity. The amino acid sequence of rat Nogo-A N-terminal domain is 76% identical to that of human Nogo-A. Within the RHD domain, rat Nogo-A shares 99% and 97% amino acid sequence identity with mouse and human Nogo, respectively.

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