

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat RTN1-A/NSP in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant rat RTN-A2B, recombinant human (rh) RTN1-A, and rhRTN3-A1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 559706
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant rat RTN1-A/NSP Met73-Ser502 Accession # Q64548
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

Reticulon-1 (RTN1-A/RTN1) is a 135 kDa multi-pass membrane protein localized to the endoplasmic reticulum of neurons. RTN1-A belongs to no known family of proteins. Rat RTN1-A is 777 amino acids (aa) in length and contains two transmembrane segments and a Reticulon domain (aa 592-759). There are also multiple potential sites for phosphorylation. Alternative splicing produces a second isoform known as RTN1-S, which is missing residues corresponding to aa 1-569 in RTN1-A, and has a 20 aa substitution for residues corresponding to aa 570-589. Rat RTN1-A is 82% aa identical to human RTN1-A

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