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anti-Reticulon 4 antibody (Middle Region)



Image



Publication



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Quantity:	100 μL
Target:	Reticulon 4 (RTN4)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Rabbit, Sheep, Cow, Horse, Guinea Pig, Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Reticulon 4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human RTN4
Sequence:	FRIYKGVIQA IQKSDEGHPF RAYLESEVAI SEELVQKYSN SALGHVNCTI
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against RTN4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Reticulon 4 (RTN4) Target:

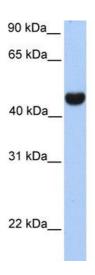
Alternative Name:	RTN4 (RTN4 Products)	
Background:	RTN4 belongs to the family of reticulons. Reticulons are associated with the endoplasmic	
	reticulum, and are involved in neuroendocrine secretion or in membrane trafficking in	
	neuroendocrine cells. RTN4 is a potent neurite outgrowth inhibitor which may also help block	
	the regeneration of the central nervous system in higher vertebrates. This gene belongs to the	
	family of reticulon encoding genes. Reticulons are associated with the endoplasmic reticulum	
	and are involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine	
	cells. The product of this gene is a potent neurite outgrowth inhibitor which may also help bloc	
	the regeneration of the central nervous system in higher vertebrates. Alternatively spliced	
	transcript variants derived both from differential splicing and differential promoter usage and	
	encoding different isoforms have been identified. This gene belongs to the family of reticulon	
	encoding genes. Reticulons are associated with the endoplasmic reticulum, and are involved i	
	neuroendocrine secretion or in membrane trafficking in neuroendocrine cells. The product of	
	this gene is a potent neurite outgrowth inhibitor which may also help block the regeneration of	
	the central nervous system in higher vertebrates. Alternatively spliced transcript variants	
	derived both from differential splicing and differential promoter usage and encoding different	
	isoforms have been identified.	
	Alias Symbols: ASY, NI220/250, NOGO, NOGO-A, NOGOC, NSP, NSP-CL, Nbla00271, Nbla1054	
	Nogo-B, Nogo-C, RTN-X, RTN4-A, RTN4-B1, RTN4-B2, RTN4-C	
	Protein Interaction Partner: HUWE1, SYT16, ZFYVE21, RTN4, SNX15, ARL6IP1, SNX1, UBC,	
	RPA3, RPA2, RPA1, vpu, BAIAP2, LAMA4, ATF2, CLN8, TMEM65, S100A16, EPPK1, SNX12,	
	ACAA2, SLC9A3R2, TJP1, HNRNPM, ILF3, IGFBP7, DDB1, SLC25A10, CIRBP, TERF1, POT1,	
	RPS27, NR4A1, HLA-DPB1, RTN3, RTN4IP1	
	Protein Size: 392	
Molecular Weight:	42 kDa	
Gene ID:	57142	
NCBI Accession:	NM_207520, NP_997403	
JniProt:	Q9NQC3	
Pathways:	Neurotrophin Signaling Pathway, Regulation of Cell Size, SARS-CoV-2 Protein Interactome	
Application Details		
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.	
	Antigen size: 392 AA	

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Publications	
Product cited in:	Wanitchakool, Ousingsawat, Sirianant, Cabrita, Faria, Schreiber, Kunzelmann: "Cellular defects by deletion of ANO10 are due to deregulated local calcium signaling." in: Cellular signalling , Vol. 30, pp. 41-49, (2016) (PubMed).
	Schreiber, Kunzelmann: "Expression of anoctamins in retinal pigment epithelium (RPE)." in: Pflügers Archiv: European journal of physiology, Vol. 468, Issue 11-12, pp. 1921-1929, (2016) (PubMed).
	Hammer, Wanitchakool, Sirianant, Papiol, Monnheimer, Faria, Ousingsawat, Schramek, Schmitt, Margos, Michel, Kraiczy, Pawlita, Schreiber, Schulz, Fingerle, Tumani, Ehrenreich, Kunzelmann: "A Coding Variant of ANO10, Affecting Volume Regulation of Macrophages, Is Associated with Borrelia Seropositivity." in: Molecular medicine (Cambridge, Mass.) , Vol. 21, pp. 26-37, (2015) (PubMed). Tian, Schreiber, Kunzelmann: "Anoctamins are a family of Ca2+-activated Cl- channels." in:

Journal of cell science, Vol. 125, Issue Pt 21, pp. 4991-8, (2013) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-RTN4 Antibody Titration: 0.2-1 ug/ml Positive Control: Human brain