

Anti-VMAT2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Chicken,Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 57 kDa. Actual: 55 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample:
	Lane 1: Mouse Adrenal gland tissue lysates
	Lane 2: Mouse Cerebrum tissue lysates
	Lane 3: Mouse Liver tissue lysates
	Lane 4: Rat Cerebrum tissue lysates
Primary:	Lane 5: Rat Stomach tissue lysates
	Primary: Anti-VMAT2 (TMAB-14122) at 1/1000 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 57 kDa
	Observed band size: 55 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human VMAT2
Antigen Species:	Human
Gene ID:	6571
Uniprot ID:	Q05940

Research Background

Neurotransmission depends on the regulated exocytotic release of chemical transmitter molecules. This requires the packaging of these substances into the specialized secretory vesicles of neurons and neuroendocrine cells, a process mediated by specific vesicular transporters. The family of genes encoding the vesicular transporters of monoamines (VMAT 1 and VMAT 2) and acetylcholine (VACht) have been cloned and functionally characterized. The sequence of these integral membrane proteins predicts twelve transmembrane domains and weak homology to a class of bacterial antibiotic resistance proteins. The vesicular transport of neurotransmitter molecules has been shown to be an active ATP- and proton dependent transport mechanism.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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