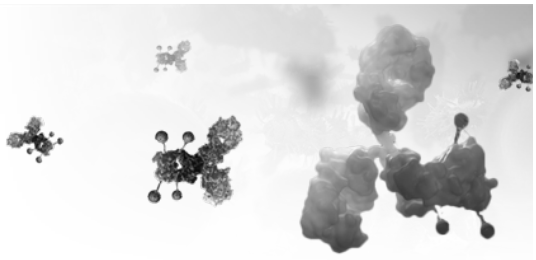

Mouse Anti-SLC18A1 monoclonal antibody, clone O550/32 (CABT-RM158)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Specifically detects Vesicular monoamine transporter 1 (VMAT1) and does not show reactivity with VMAT2. It targets an epitope with in 93 amino acids from the N-terminal first lumenal region.
Target	SLC18A1
Immunogen	Recombinant fragment corresponding to 93 amino acids from the N-terminal first lumenal region of murine Vesicular amine transporter 1 (VMAT1).
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Mouse, Rat
Clone	O550/32
Purification	Protein G purified
Conjugate	unconjugated
Applications	WB
Epitope	extracellular domain
Molecular Weight	~93 kDa observed; 56.03 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µl

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Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide
Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	Chromaffin granule amine transporter is encoded by the Scl19a1 gene in murine species. Vesicular monoamine transporters (VMATs) are involved in presynaptic storage and release of neurotransmitters. They are located in the presynaptic region and are involved in the transport of monoamines into storage vesicle, which are released upon arrival of an action potential. Two structurally related, but pharmacologically distinct, VMATs have been described (VMAT1 and VMAT2) that are encoded by separate genes. VMAT1 is a multi-pass membrane acidic glycoprotein that is found in both large dense-core vesicles and in small synaptic vesicles. It s both C- and N-terminal regions are located in the cytosolic side of the vesicle. VMAT1 is detected in adrenal medulla, and brain (at protein level). In brain, specifically found in the medulla oblongata, pons, prefrontal cortex, striatum, dentate gyrus and hippocampus. VMAT1 is shown to play a key role in survival of hippocampal neurons and may contribute to neurocognitive deficits observed in neuropsychiatric disorders.
Keywords	SLC18A1; solute carrier family 18 (vesicular monoamine transporter), member 1; CGAT; VAT1; VMAT1; chromaffin granule amine transporter; vesicular amine transporter 1; solute carrier family 18 member 1; solute carrier family 18 (vesicular monoamine), member 1

GENE INFORMATION

Entrez Gene ID	110877
UniProt ID	Q8R090

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