

Product Datasheet

Anti-VMAT1 Antibody FL594 Conjugate



Overview

Catalog #	75-430-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	N440/21
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Mouse and Rat
Immunogen	Fusion protein amino acids 43-135 (first luminal domain) of mouse Slc18a1 (accession number Q8R090) produced recombinantly in E. Coli
Molecular Weight	100 kDa
Cite this Antibody	Antibodies Inc Cat# 75-430-FL594, RRID: AB_2940430

Details

Target Description	Vesicular monoamine transporters (VMATs) sequester neurotransmitters such as dopamine, serotonin and adrenaline into synaptic vesicles (Erickson et al., 1996). Two VMATs have been identified, VMAT1 and VMAT2. VMAT1 shows a higher affinity for serotonin (Brunk et al., 2006). Antibodies specific for VMATs have been used to monitor expression of the transporter during development and in aging and can be effectively used as a marker for monoamine terminals (Haycock et al., 2003; Witkovsky et al., 2005).
Specificity	Does not cross-react with VMAT2
Purification Method	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.
Quality Control Tests	Each new lot of antibody is quality control tested by IHC on either rat or mouse brain and confirmed to give the expected staining pattern.

Storage

Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$. For maximum recovery of product, centrifuge the vial prior to removing the cap.

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