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PRODUCT DATASHEET

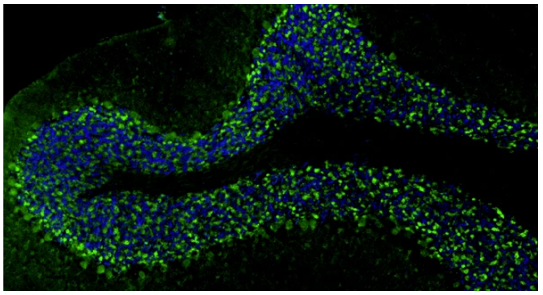
Anti-VGAT Recombinant Chicken Chimeric mAb

Product Details

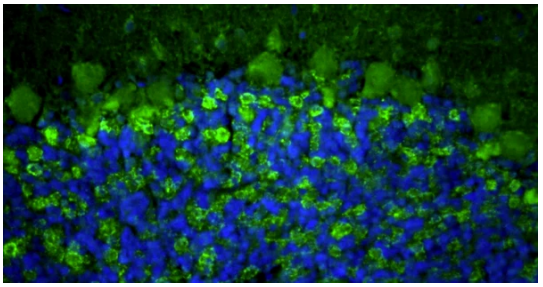
Available Variants	100 µL (SKU:78-457) 20 µL (SKU:78-457-020)
Conjugate	Unconjugated
Isotype	IgY
Clone	L118/80
Gene Name	Slc32a1 Vgat Viaat
Host Species	Chicken
Concentration	1 mg/mL
Format	Purified by affinity chromatography
Physical State	Liquid
Buffer	1X PBS, 0.05% Sodium Azide pH 7.4
Production Notes	This recombinant antibody is a chimeric antibody created by replacing the mouse heavy and light constant regions of clone L118/80 with chicken IgY heavy and light constant regions. As such this antibody retains the same binding performance as the original clone L118/80 but can be detected using standard anti-chicken secondary antibodies allowing flexibility for multiplexing applications. This antibody is expressed recombinantly in mammalian cells and then affinity purified from the cell culture media.
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:500
Species Reactivity	Mouse, Rat
Immunogen	Fusion protein amino acids 1-133 (cytoplasmic N-terminus) of mouse VGAT (accession number O35633) produced recombinantly in E. Coli

Specificity	No cross-reactivity reported
Molecular Weight	50 kDa
Quality Control	Each new lot of antibody is quality control tested by Western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.
Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.
UniProt ID	O35633
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.

Product Images



Representative FFPE section of rat brain cerebellum showing VGAT staining. The sections were stained with anti-VGAT recombinant chicken monoclonal antibody (Cat. 78-457) using goat anti-chicken IgY FITC secondary antibody (Cat. 80-1000-FITC) (green). The stained sections were mounted with Fluoroshield (DAPI and DABCO) mounting medium (Cat. AR-6505). DAPI (blue) stains cell nuclei. Anti-VGAT stains the GABAergic terminals and neurons in the cerebellum. Magnification 100X.



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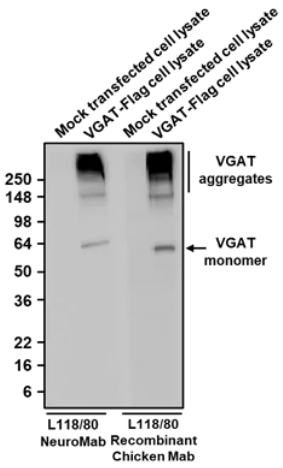

Western blotting of mock transfected and VGAT-FLAG transfected COS-7 lysates with anti-VGAT mouse mAb (Cat. 75-457) and Aves Labs anti-VGAT recombinant chicken mAb (Cat. 78-457) antibody (5 µg/mL). The mouse mAb and chicken Mab were detected with anti-mouse-HRP and anti-chicken-HRP, respectively. Aves Labs Recombinant Chicken anti-VGAT Mab recognizes exogenous VGAT with similar sensitivity as the anti-VGAT NeuroMab only in VGAT-FLAG transfected COS-7 lysates at ~57 kDa.

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