

VGLUT1 Recombinant Monoclonal Mouse Antibody (rN28/9) - Biotium Choice

A recombinant mouse monoclonal antibody that recognizes VGLUT1. This antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance.

Product Description

VGLUT1 Recombinant Monoclonal Mouse Antibody (rN28/9) recognizes the vesicular glutamate transporter 1 (VGLUT1) expressed during neurotransmission. This antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance. The antibody is available conjugated to a selection of CF® Dyes.

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- Available in 8 bright and photostable CF® Dyes, including [near-IR CF®740 and CF®790](#)
- Suitable for immunohistochemistry, immunofluorescence, and western

VGLUT1 is mainly found on synaptic vesicles at glutamatergic synapses, where it uses the proton gradient generated by vesicular ATPase to load glutamate into vesicles before their fusion with the plasma membrane and neurotransmitter release into the synaptic cleft.

Discover Sharper Signals and Unmatched Panel Flexibility with Biotium Choice Antibodies - Powered by CF® Dyes

Biotium Choice antibodies are carefully curated and validated in-house to offer exceptional signal-to-noise. Labeled with our advanced CF® Dyes, they are our top-recommended antibodies for immunofluorescence and other applications.

Biotium Choice Antibody Features

- Robust and validated clones against common targets
- Developed and optimized for immunofluorescence and other applications
- Conjugated to bright, photostable [CF® Dyes](#) for superior signal and clarity
- New antibody clones and dye conjugates continuously in development

[View our full catalog of Biotium Choice antibodies](#)

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Conjugation	Ex/Em	Conc.	Size	Catalog No.	Dye Features
CF®488A	490/516 nm	100 ug/mL	500 uL	P049-488A-500UL	CF®488A Features
CF®568	562/584 nm	100 ug/mL	500 uL	P049-568-500UL	CF®568 Features
CF®594	593/615 nm	100 ug/mL	500 uL	P049-594-500UL	CF®594 Features
CF®640R	642/663 nm	100 ug/mL	500 uL	P049-640R-500UL	CF®640R Features
CF®647	652/668 nm	100 ug/mL	500 uL	P049-647-500UL	CF®647 Features
CF®680R	680/701 nm	100 ug/mL	500 uL	P049-680R-500UL	CF®680R Features
CF®740	742/767 nm	100 ug/mL	500 uL	P049-740-500UL	CF®740 Features
CF®790	783/808 nm	100 ug/mL	500 uL	P049-790-500UL	CF®790 Features

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Product link: <https://biotium.com/product/vglut1-recombinant-monoclonal-mouse-antibody-rn28-9-biotium-choice/>



Call us : [800-304-5357](tel:800-304-5357)

Product attributes

Antibody number	#P049
Antibody reactivity (target)	VGLUT1
Antibody type	Biotium Choice, Primary
Biotium Choice Antibody	Primary
Host species	Mouse
Clonality	Monoclonal, Recombinant Monoclonal
Clone	rN28/9
Immunogen	Fusion protein amino acids 493-560 (cytoplasmic C-terminus) of rat VGlut1
Isotype	IgG1
Molecular weight	52 kDa
Synonyms	SLC17A7, BNPI, VGLUT1, solute carrier family 17 member 7
Human gene symbol	SLC17A7
Entrez gene ID	116638
SwissProt	Q62634
Cell/tissue expression	Neurons
Verified antibody applications	IF (verified), IHC (frozen) (verified)
Species reactivity	Fish, Human, Mouse, Rat
Expected antibody applications	IHC (FFPE) (published for clone), WB (published for clone)
Antibody application notes	Immunofluorescence: 1-5 ug/mL; Optimal concentration to be determined by end-user.
Positive control	Brain, retina
Shipping condition	Room temperature
Storage Conditions	Store at 2 to 8 °C, Protect fluorescent conjugates from light
Shelf life	Guaranteed for at least 24 months from date of receipt when stored as recommended
Regulatory status	For research use only (RUO)
Antibody/conjugate formulation	Conjugates: PBS/2 mg/mL rBSA/0.05% azide
Product origin	Recombinant BSA produced in Chinese hamster ovary cells, Recombinant mouse IgG produced in Chinese Hamster Ovary (CHO) cell line
Antibody research areas	Neuroscience