

VGLUT2 Recombinant Antibody [PSH10-54] - Rat IgG1 (Chimeric) - BSA and Azide free

HA610235



Product Type: Recombinant Chimeric Antibody IgG1, primary antibodies
Species reactivity: Mouse, Rat, Cynomolgus monkey, Pig
Applications: IHC-Fr, WB
Molecular Wt: Predicted band size: 65 kDa
Clone number: PSH10-54

Description: Predicted to enable L-glutamate transmembrane transporter activity and neurotransmitter transmembrane transporter activity. Involved in neurotransmitter loading into synaptic vesicle. Predicted to be located in synaptic vesicle. Predicted to be active in excitatory synapse. Predicted to be integral component of synaptic vesicle membrane.

Positive control: Mouse cerebellum tissue, Mouse brain tissue lysate, Rat brain tissue lysate.

Subcellular location: Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane, Synapse, synaptosome, Cell membrane.

Database links: SwissProt: Q8BLE7 Mouse | Q9JI12 Rat

Recommended Dilutions:

IHC-Fr 1:500
WB 1:2,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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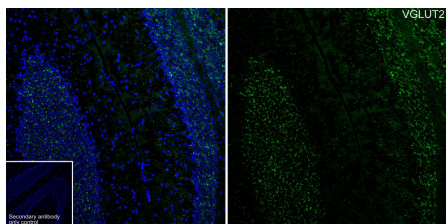
Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

**Fig1:** Application: IHC-Fr

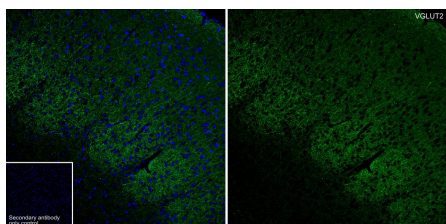
Species: Mouse

Site: Cerebellum

Sample: Frozen section

Antibody concentration: 1:500

Antigen retrieval: Not required

**Fig2:** Application: IHC-Fr

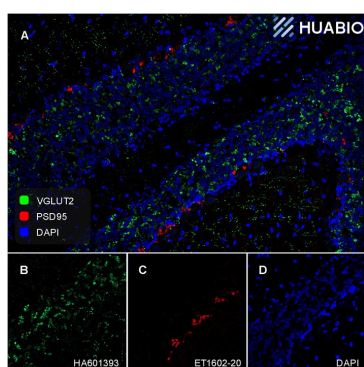
Species: Mouse

Site: Cerebral cortex

Sample: Frozen section

Antibody concentration: 1:500

Antigen retrieval: Not required

**Fig3:** Application: IHC-Fr

Species: Rat

Site: Cerebellum

Sample: Frozen section

Antibody concentration: 1:500 (VGLUT2, HA610235, green);
1:1,000 (PSD95, ET1602-20, red)

Antigen retrieval: Not required

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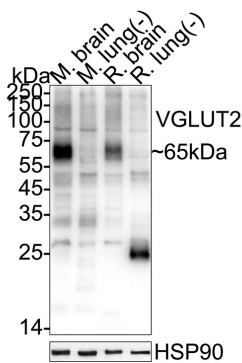
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Fig4: Western blot analysis of VGLUT2 on different lysates with Rat anti-VGLUT2 antibody (HA610235) at 1/2,000 dilution.

Lane 1: Mouse brain tissue lysate
 Lane 2: Mouse lung tissue lysate (negative)
 Lane 3: Rat brain tissue lysate
 Lane 4: Rat lung tissue lysate (negative)



Lysates/proteins at 20 µg/Lane.

Predicted band size: 65 kDa
 Observed band size: 65 kDa

Exposure time: 4 seconds; ECL: K1801;
 4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA610235) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rat IgG H&L - HRP Secondary Antibody (HA1023) at 1/5,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Buck SA et al. Roles of VGLUT2 and Dopamine/Glutamate Co-Transmission in Selective Vulnerability to Dopamine Neurodegeneration. ACS Chem Neurosci. 2022 Jan
2. Zhang Y et al. VGluT2 neuron subtypes in the paraventricular thalamic nucleus regulate depression in paraquat-induced Parkinson's disease. J Hazard Mater. 2024 Jul

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