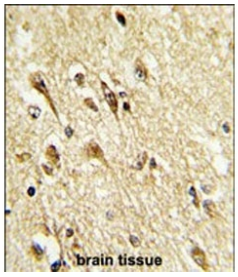
VGluT2 Antibody / Vesicular glutamate transporter 2 / SLC17A6 (F55093)

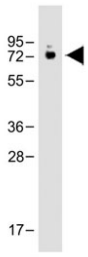
Catalog No.	Formulation	Size
F55093-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F55093-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q8BLE7
Applications	Western Blot : 1:500-1:1000 Immunohistochemistry (FFPE) : 1:50-1:100
Limitations	This VGluT2 antibody is available for research use only.



IHC staining of FFPE human brain tissue with VGluT2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of mouse brain tissue lysate with VGluT2 antibody. Predicted molecular weight ~64 kDa.

Description

VGluT2, short for Vesicular Glutamate Transporter 2, is a protein that is responsible for packaging and transporting glutamate into synaptic vesicles. These vesicles then release glutamate into the synaptic cleft, where it binds to receptors on the postsynaptic neuron, leading to the transmission of signals between neurons. Research has shown that VGluT2 is predominantly expressed in specific brain regions, such as the cerebellum, hippocampus, and cortex, where it plays a crucial role in modulating synaptic transmission and plasticity. Dysfunction of VGluT2 has been linked to various neurological disorders, including epilepsy, schizophrenia, and neurodegenerative diseases.

Application Notes

The stated application concentrations are suggested starting points. Titration of the VGluT2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 507-535 from the mouse protein was used as the immunogen for the VGluT2 antibody.

Storage

Aliquot the VGluT2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.