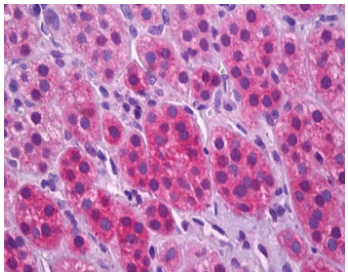
VGLUT1 Antibody / Vesicular glutamate transporter 1 (R36504)

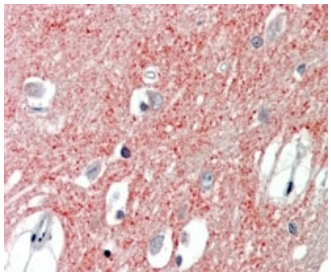
Catalog No.	Formulation	Size
R36504-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
UniProt	Q9P2U7
Applications	Immunohistochemistry (FFPE) : 3.75ug/ml ELISA (peptide) LOD : 1:32000
Limitations	This VGLUT1 antibody is available for research use only.



IHC staining of FFPE human adrenal cortex tissue with VGLUT1 antibody at 3.75ug/ml. Required HIER: steamed antigen retrieval with pH6 citrate buffer; AP-staining.



IHC staining of FFPE human cortex tissue with VGLUT1 antibody at 3.75ug/ml. Required HIER: steamed antigen retrieval with pH6 citrate buffer; AP-staining.

Description

VGLUT1 (Vesicular glutamate transporter 1), also called SLC17A7 and BNPI (Brain-specific Na(+)-dependent inorganic phosphate cotransporter) is responsible for packaging glutamate, the most abundant neurotransmitter in the brain, into synaptic vesicles. These vesicles then release glutamate into the synapse, where it binds to receptors on the postsynaptic neuron, triggering a cascade of events that ultimately lead to the transmission of signals. Without VGLUT1, this process would be disrupted, leading to impaired neurotransmission and potentially affecting brain function. Research has shown that abnormalities in VGLUT1 expression are associated with various neurological disorders, including schizophrenia, Alzheimer's disease, and epilepsy.

Application Notes

Optimal dilution of the VGLUT1 antibody should be determined by the researcher.

Immunogen

Amino acids HDQLAGSDDSEMED were used as the immunogen for this VGLUT1 antibody.

Storage

Aliquot and store the VGLUT1 antibody at -20oC.