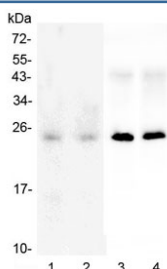


SNAP25 Antibody (RQ4609)

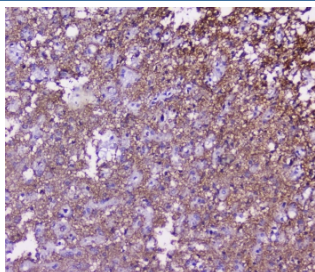
Catalog No.	Formulation	Size
RQ4609	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

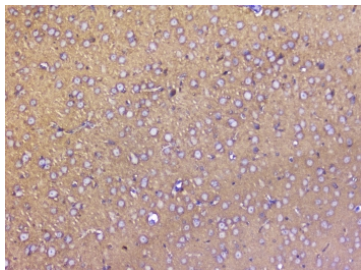
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P60880
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-3ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml (human recombinant protein)
Limitations	This SNAP25 antibody is available for research use only.



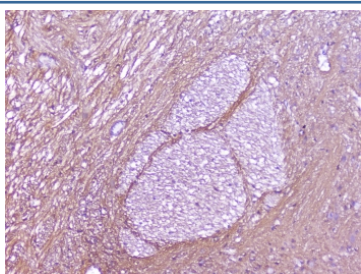
Western blot testing of 1) human HeLa, 2) human U-87 MG, 3) rat brain and 4) mouse brain lysate with SNAP25 antibody at 0.5ug/ml. Expected molecular weight ~25 kDa.



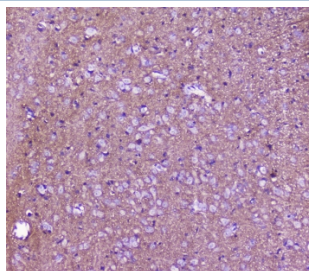
IHC staining of FFPE human glioma with SNAP25 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



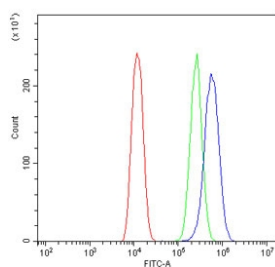
IHC staining of FFPE mouse brain with SNAP25 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



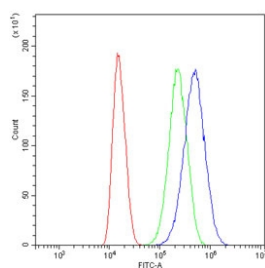
IHC staining of FFPE rat brain with SNAP25 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE rat brain with SNAP25 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Flow cytometry testing of human U-2 OS cells with SNAP25 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SNAP25 antibody.



Flow cytometry testing of human U-87 MG cells with SNAP25 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SNAP25 antibody.

Synaptosome-associated protein of 25,000 daltons, also known as SNAP-25, is a protein which in humans encodes a 25-kD protein of 206 amino acids. It was first investigated as a neuron-specific gene preferentially expressed in mouse hippocampus. The tSNARE (the target-membrane soluble NSF-attachment protein receptor, where NSF is N-ethylmaleimide-sensitive fusion protein) synaptosomal-associated protein of 25 kDa (SNAP-25) is expressed in pancreatic B-cells and its cleavage by botulinum neurotoxin E (BoNT/E) abolishes stimulated secretion of insulin. In the nervous system, two SNAP-25 isoforms (a and b) have been described, which are produced by alternative splicing. It is identified mammalian Snap25a and Snap25b as targets of protein kinase A, a key regulator of neurosecretion that primes slowly releasable pools and readily releasable pools of secretory vesicles. SNAP-25 inhibits P/Q- and L-type voltage-gated calcium channels located presynaptically and interacts with the synaptotagmin C2B domain in Ca²⁺-independent fashion. In glutamatergic synapses SNAP-25 decreases the Ca²⁺ responsiveness, while it is naturally absent in GABAergic synapses.

Application Notes

Optimal dilution of the SNAP25 antibody should be determined by the researcher.

Immunogen

Amino acids M1-L203 from the human protein were used as the immunogen for the SNAP25 antibody.

Storage

After reconstitution, the SNAP25 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.