VGLUT2 (YD15354) Rabbit mAb

货号: AYD15081

产品信息

反应	Mouse,Rat
宿主	Rabbit
克隆性	Monoclonal
预测反应	
应用	WB IHC-P ICC/IF IP
推荐浓度	
理论分子量	65kDa
实测分子量	
形式	Liquid
保存条件	Store at -20℃. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	
细胞定位	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane, Synapse, synaptosome, Cell membrane
纯化	

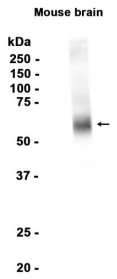
抗原信息

抗原信息	

靶点信息

研究背景	Multifunctional transporter that transports L-glutamate as well as multiple ions such as chloride, proton, potassium, sodium and phosphate (PubMed:11432869, PubMed:17108179, PubMed:25433636, PubMed:33440152). At the synaptic vesicle membrane, mainly functions as a uniporter which transports preferentially L-glutamate but also, phosphate from the cytoplasm into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells (PubMed:11432869, PubMed:17108179). The L-glutamate or phosphate uniporter activity is electrogenic and is driven by the proton electrochemical gradient, mainly by the electrical gradient established by the vacuolar H(+)-ATPase across the synaptic vesicle membrane (PubMed:11432869). In addition, functions as a chloride channel that allows a chloride permeation through the synaptic vesicle membrane therefore affects the proton electrochemical gradient and promotes synaptic vesicles acidification (By similarity). Moreover, functions as a vesicular K(+)/H(+) antiport allowing to maintain the electrical gradient and to decrease chemical gradient and therefore sustain vesicular glutamate uptake (PubMed:25433636). The vesicular H(+)/H(+) antiport activity is electroneutral (PubMed:25433636). At the plasma membrane, following exocytosis, functions as a symporter of Na(+) and phosphate from the extracellular space to the cytoplasm allowing synaptic phosphate homeostasis regulation (PubMed:33440152). The symporter activity is driven by an inside negative membrane potential and is electrogenic (PubMed:33440152). Also involved in the regulation of retinal hyaloid vessel regression during postnatal development (PubMed:30936473). May also play a role in the endocrine glutamatergic system of other tissues such as pineal gland and pancreas (By similarity)
基因ID	3134
基因名	Slc17a6
Swiss	Q8BLE7
别名	VGLUT2 (YD15354)

产品验证



实验步骤

访问官网浏览详情: www.ablybio.cn