



Recombinant GABA A Receptor alpha 1 Monoclonal Antibody

catalog number: AN301811L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human;Rat;Mouse

Immunogen Recombinant human GABA A Receptor alpha 1 fragment

 $\begin{tabular}{ll} \textbf{Host} & Rabbit \\ \textbf{Isotype} & IgG, \kappa \\ \textbf{Clone} & A523 \\ \end{tabular}$

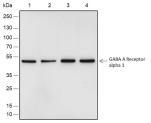
Purification Protein A purified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

WB 1:500-1:2000 IHC 1:50-1:100

Data



Western Blot with GABA A Receptor alpha 1 Monoclonal Antibody at dilution of 1:2000. Lane 1: Mouse hippocampus, Lane 2: Mouse brain, Lane 3: Mouse cerebellum, Lane 4:

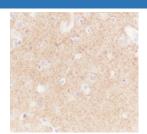
Rat cerebellum

Observed-MW:52 kDa

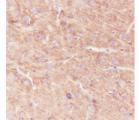
Calculated-MW:52 kDa



Immunohistochemistry of paraffin-embedded Mouse cerebrum using GABA A Receptor alpha 1 Monoclonal Antibody at dilution of 1:100.



Immunohistochemistry of paraffin-embedded Human cerebrum using GABA A Receptor alpha 1 Monoclonal Antibody at dilution of 1:100.



Immunohistochemistry of paraffin-embedded Rat cerebrum using GABA A Receptor alpha 1 Monoclonal Antibody at dilution of 1:100.

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping lce bag

Background

For Research Use Only

 Toll-free: 1-888-852-8623
 Tel: 1-832-243-6086
 Fax: 1-832-243-6017

 Web: www.elabscience.com
 Email: techsupport@elabscience.com

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GABA A Receptor alpha 1 is a subunit of the GABA A receptor protein. GABA A receptor consists of different combinations of five protein subunits, each produced from a different gene. These subunits form a hole (pore) in the cell membrane through which negatively charged chlorine atoms (chloride ions) can flow. A chemical that transmits signals in the brain (a neurotransmitter) called gamma-amino butyric acid (GABA) attaches to GABA A receptors. Once GABA attaches, the pore formed by the subunits opens, and chloride ions flow across the cell membrane. After infancy, chloride ions flow into the cell through the open pore, which creates an environment in the cell that blocks (inhibits) signaling between neurons. The primary role of GABA in children and adults is to prevent the brain from being overloaded with too many signals. In contrast, in newborns and infants, chloride ions flow out of the cell when the pore is opened, creating an environment that allows signaling between neurons.

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