Best Tools for immunology Research

# GABAA Rα4 Polyclonal Antibody

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| **Catalog No :** | YT1822 |
| **Reactivity :** | Human;Mouse;Rat |
| **Applications :** | WB;ELISA |
| **Target :** | GABA A Receptor α4 |
| **Fields :** | >>Neuroactive ligand-receptor interaction;>>Retrograde endocannabinoid signaling;>>GABAergic synapse;>>Taste transduction;>>Morphine addiction;>>Nicotine addiction |
| **Gene Name :** | GABRA4 |
| **Protein Name :** | Gamma-aminobutyric acid receptor subunit alpha-4 |
| **Human Gene Id :** | 2557 |
| **Human Swiss Prot No :** | P48169 |
| **Mouse Gene Id :** | 14397 |
| **Mouse Swiss Prot No :** | Q9D6F4 |
| **Rat Gene Id :** | 140675 |
| **Rat Swiss Prot No :** | P28471 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human GABRA4. AA range:81-130 |
| **Specificity :** | GABAA Rα4 Polyclonal Antibody detects endogenous levels of GABAA Rα4 protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |

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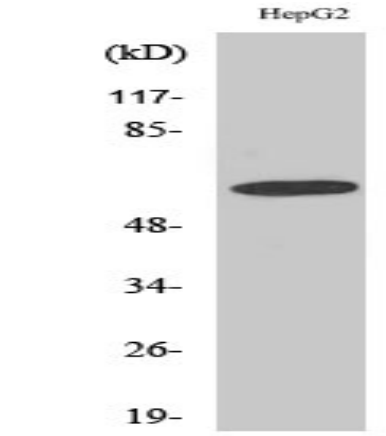
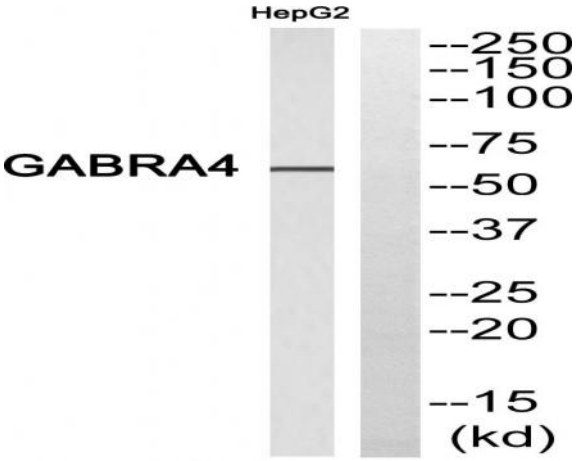
| **Dilution :** | WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications. |
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration :** | 1 mg/ml |
| **Storage Stability :** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Observed Band :** | 60kD |
| **Cell Pathway :** | Neuroactive ligand-receptor interaction; |
| **Background :** | Gamma-aminobutyric acid (GABA) is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. At least 16 distinct subunits of GABA-A receptors have been identified. This gene encodes subunit alpha-4, which is involved in the etiology of autism and eventually increases autism risk through interaction with another subunit, gamma-aminobutyric acid receptor beta-1 (GABRB1). Alternatively spliced transcript variants encoding different isoforms have been found in this gene.[provided by RefSeq, Feb 2011], |
| **Function :** | function:GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel.,induction:The alpha4 beta2 gamma 2L receptor is not repressed by diazepam.,online information:Forbidden fruit - Issue 56 of March 2005,similarity:Belongs to the ligand-gated ionic channel (TC 1.A.9) family.,subunit:Generally pentameric. There are five types of GABA(A) receptor chains: alpha, beta, gamma, delta, and rho., |
| **Subcellular Location :** | Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. |
| **Expression :** | Brain,Brain cortex, |

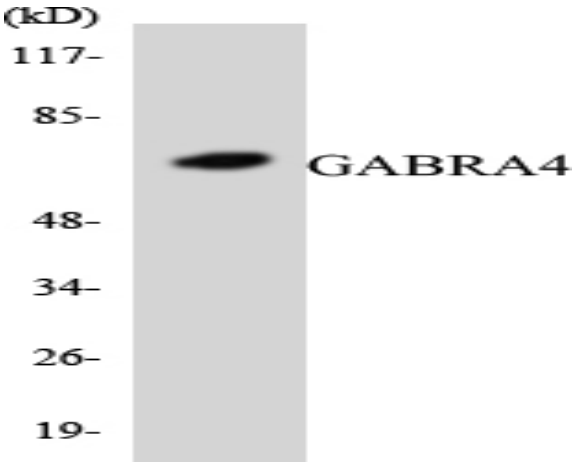
## Products Images




Western Blot analysis of various cells using GABAA Rα4 Polyclonal Antibody diluted at 1:1000




Western blot analysis of GABRA4 Antibody. The lane on the right is blocked with the GABRA4 peptide.




Western blot analysis of the lysates from COLO205 cells using GABRA4 antibody.