



# AChR $\alpha$ 5 Monoclonal Antibody

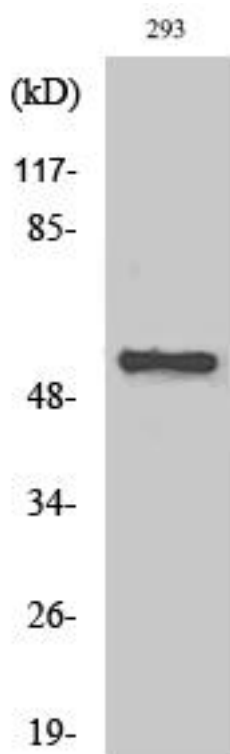
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | YP-mAb-16371                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reactivity</b>         | Human;Mouse;Rat;Monkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications</b>       | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>          | CHRNA5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Name</b>       | Neuronal acetylcholine receptor subunit alpha-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human AChRalpha5. AA range:166-215                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Specificity</b>        | AChR $\alpha$ 5 Monoclonal Antibody detects endogenous levels of AChR $\alpha$ 5 protein.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>             | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purification</b>       | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Dilution</b>           | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>             | $\geq 90\%$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>           | CHRNA5; NACHRA5; Neuronal acetylcholine receptor subunit alpha-5                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Observed Band</b>      | 53kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cell Pathway</b>       | Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Tissue Specificity</b> | Eye,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Function</b>           | disease:Genetic variations in CHRNA5 may be associated with susceptibility to lung cancer type 2 (LNCR2) [MIM:612052].,function:After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.,similarity:Belongs to the ligand-gated ionic channel (TC 1.A.9) family.,subunit:Neuronal AChR seems to be composed of two different type of subunits: alpha and non-alpha (beta)., |
| <b>Background</b>         | The protein encoded by this gene is a nicotinic acetylcholine receptor subunit and a member of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. These receptors are thought to be heteropentamers composed of separate but similar subunits. Defects in this gene have been linked to susceptibility to lung cancer type 2 (LNCR2).[provided by RefSeq, Jun 2010],                                                                                                  |

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**

Western Blot analysis of various cells using AChR  $\alpha$  5 Monoclonal Antibody