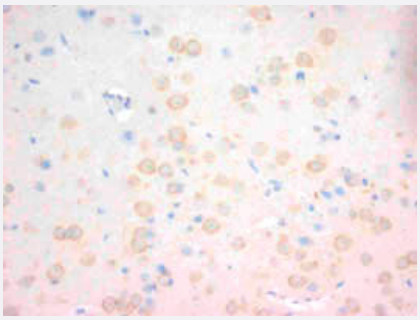
CHRNA1 polyclonal antibody

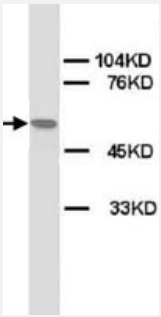
Catalog # PAB12331 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of CHRNA1 on formalin fixed, paraffin embedded rat brain with CHRNA1 polyclonal antibody (Cat # PAB12331).



Western Blot (Tissue lysate)

Western Blot analysis of CHRNA1 expression from rat skeletal muscle lyate with CHRNA1 polyclonal antibody (Cat # PAB12331).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CHRNA1.
Immunogen	A synthetic peptide corresponding to amino acids at N-terminus of human CHRNA1.
Host	Rabbit
Theoretical MW (kDa)	54.5
Reactivity	Human, Mouse, Rat
Specificity	Identical to the related rat and mouse sequence.
Form	Lyophilized

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Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (0.75 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na_2HPO_4 (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of CHRNA1 on formalin fixed, paraffin embedded rat brain with CHRNA1 polyclonal antibody (Cat # PAB12331).

- Western Blot (Tissue lysate)

  Western Blot analysis of CHRNA1 expression from rat skeletal muscle lyate with CHRNA1 polyclonal antibody (Cat # PAB12331).

Gene Info — CHRNA1

Entrez GeneID	1134
Gene Name	CHRNA1
Gene Alias	ACHRA, ACHRD, CHRNA, CMS2A, FCCMS, SCCMS
Gene Description	cholinergic receptor, nicotinic, alpha 1 (muscle)
Omim ID	100690 601462 608930
Gene Ontology	Hyperlink

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Gene Summary	The muscle acetylcholine receptor consiststs of 5 subunits of 4 different types: 2 alpha isoforms a nd 1 each of beta, gamma, and delta subunits.2 This gene encodes an alpha subunit that plays a r ole in acetlycholine binding/channel gating. Alternatively spliced transcript variants encoding differ ent isoforms have been identified. [provided by RefSeq
Other Designations	cholinergic receptor, nicotinic, alpha polypeptide 1 (muscle)|nicotinic acetylcholine receptor alpha subunit|nicotinic cholinergic receptor alpha 1

Publication Reference

- Stability of motor endplates is greater in the biceps than in the interossei in a rat model of obstetric brachial plexus palsy.

  Bo Li, Liang Chen, Yu-Dong Gu.

  Neural Regeneration Research 2020 Sep; 15(9):1678.

  Application: WB-Ti, Rat, Rat biceps, Rat bilateral interossei

- An IRF8-binding promoter variant and AIRE control CHRNA1 promiscuous expression in thymus.

  Giraud M, Taubert R, Vandiedonck C, Ke X, Lévi-Strauss M, Pagani F, Baralle FE, Eymard B, Tranchant C, Gajdos P, Vincent A, Willcox N, Beeson D, Kyewski B, Garchon HJ.

  Nature 2007 Aug; 448(7156):934.

- Cloning and sequence analysis of calf cDNA and human genomic DNA encoding alpha-subunit precursor of muscle acetylcholine receptor.

  Noda M, Furutani Y, Takahashi H, Toyosato M, Tanabe T, Shimizu S, Kikyotani S, Kayano T, Hirose T, Inayama S, et al..

  Nature 1983 Oct; 305(5937):818.

Disease

- Bipolar Disorder
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Lung Neoplasms
- Mental Disorders

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- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder

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