Rabbit CHRNA5 Polyclonal Antibody | anti-CHRNA5 antibody

Anti-CHRNA5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11685	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunohistochemistry**

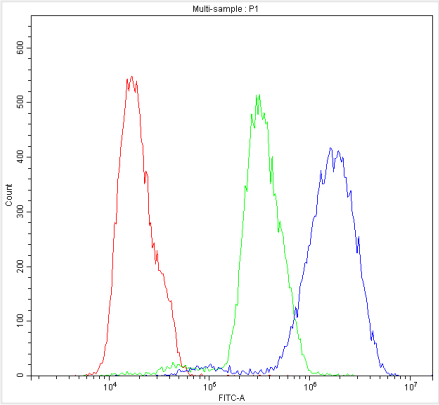
PRODUCT SYNONYMS

CHRNA5; Polyclonal Antibody; Anti-CHRNA5 Antibody; AChR; CHRNA 5; LNCR2; NACHRA 5; NACHRA5; P30532; Neuronal acetylcholine receptor subunit alpha-5; cholinergic receptor nicotinic alpha 5 subunit; anti-CHRNA5 antibody

PRODUCT SPECIFICATIONS

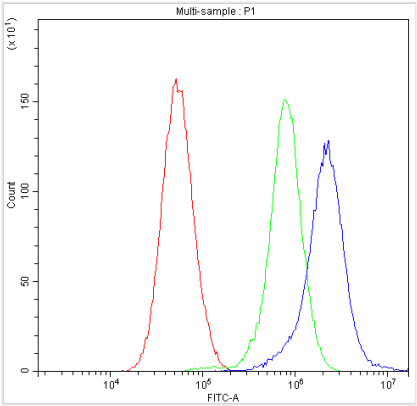
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	468
Applicable Applications for anti-CHRNA5 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot: 0.1-0.5ug/ml Immunohistochemistry(IHC) Paraffin: 0.5-1ug/ml
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CHRNA5 (44-76aa AKHEDSLLKDLFQDYERWVRPVEHLNDKIKIKF), different from the related mouse sequence by five amino acids, and from the related rat sequence by four amino acids.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



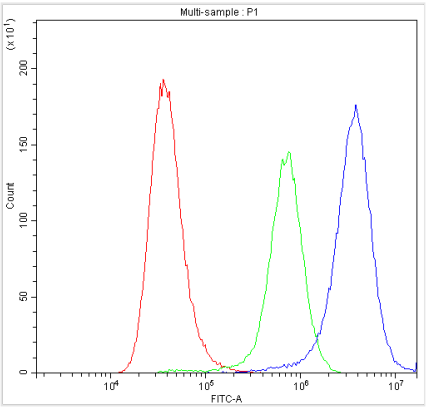
FCM (Flow Cytometry)

Figure 9. Flow Cytometry analysis of MCF-7 cells using anti-CHRNA5 antibody (AAA11685).Overlay histogram showing MCF-7 cells stained with AAA11685 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CHRNA5 Antibody (AAA11685,1ug/1x10^6 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



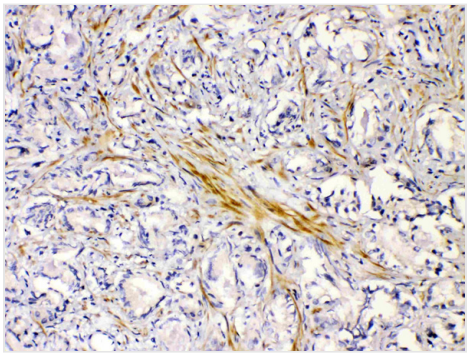
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of U251 cells using anti-CHRNA5 antibody (AAA11685).Overlay histogram showing U251 cells stained with AAA11685 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CHRNA5 Antibody (AAA11685,1ug/1x10^6 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



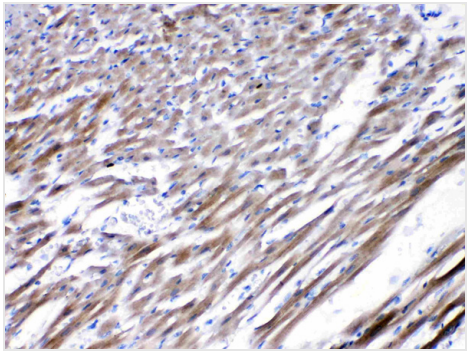
FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of A549 cells using anti-CHRNA5 antibody (AAA11685).Overlay histogram showing A549 cells stained with AAA11685 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CHRNA5 Antibody (AAA11685,1ug/1x10^6 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

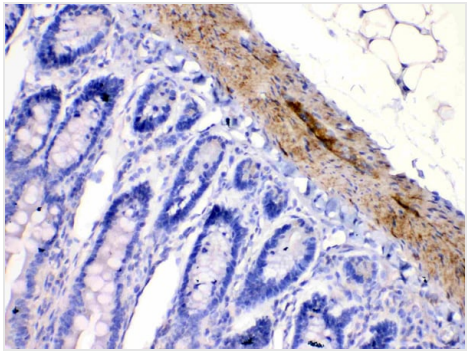


IHC (Immunohistchemistry)

Figure 6. IHC analysis of CHRNA5 using anti-CHRNA5 antibody (AAA11685). CHRNA5 was detected in paraffin-embedded section of human prostatic cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CHRNA5 Antibody (AAA11685) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 5. IHC analysis of CHRNA5 using anti-CHRNA5 antibody (AAA11685). CHRNA5 was detected in paraffin-embedded section of rat cardiac muscle tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-FBXL4 Antibody (AAA11685) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 4. IHC analysis of CHRNA5 using anti-CHRNA5 antibody (AAA11685). CHRNA5 was detected in paraffin-embedded section of rat intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CHRNA5 Antibody (AAA11685) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-CHRNA5 antibody	Rabbit IgG polyclonal antibody for Neuronal acetylcholine receptor subunit alpha-5(CHRNA5) detection. Background: Neuronal acetylcholine receptor subunit alpha-5 is a protein that in humans is encoded by the CHRNA5 gene. It is mapped to 15q25.1. 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).
References	1. "Entrez Gene: CHRNA5 cholinergic receptor, nicotinic, alpha 5". 2. Chini, B., Clementi, F., Hukovic, N., Sher, E. Neuronal-type alpha-bungarotoxin receptors and the alpha-5-nicotinic receptor subunit gene are expressed in neuronal and nonneuronal human cell lines. Hum. Genet. 89: 1572-1576, 1992. 3. Wang, J. C., Cruchaga, C., Saccone, N. L., Bertelsen, S., Liu, P., Budde, J. P., Duan, W., Fox, L., Grucza, R. A., Kern, J., Mayo, K., Reyes, O., and 12 others. Risk for nicotine dependence and lung cancer is conferred by mRNA expression levels and amino acid change in CHRNA5. Hum. Molec. Genet. 18: 3125-3135, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33589827
NCBI GeneID	1138
NCBI Accession #	NP_000736.2
NCBI GenBank Nucleotide #	NM_000745.3
UniProt Accession #	P30532; Q15824; Q99554
Molecular Weight	53,054 Da
NCBI Official Full Name	neuronal acetylcholine receptor subunit alpha-5 isoform 1
NCBI Official Synonym Full Names	cholinergic receptor nicotinic alpha 5 subunit
NCBI Official Symbol	CHRNA5
NCBI Official Synonym Symbols	LNCR2
NCBI Protein Information	neuronal acetylcholine receptor subunit alpha-5
UniProt Protein Name	Neuronal acetylcholine receptor subunit alpha-5
UniProt Gene Name	**CHRNA5**

UniProt Synonym Gene Names	NACHRA5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/chrna5-antibody-western-blot-immunohistochemistry-elisa/11685