

Product Data Sheet

Anti-AChR alpha 7 Antibody

Catalog #	Source	Reactivity	Applications
CQA4081	Rabbit	H, M, R	WB, IH, IF/IC
Description	Rabbit polyclonal antibody to AChR alpha 7		
Immunogen	Recombinant fusion protein of human AChR alpha 7. The exact sequence is proprietary.		
Purification	The antibody was purified by immunogen affinity chromatography.		
Specificity	Recognizes endogenous levels of AChR alpha 7 protein		
Clonality	Polyclonal		
Conjugation			
Form	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		
Dilution	WB (1/500 - 1/2000), IH (1/50 - 1/200), IF/IC (1/50 - 1/200)		
Gene Symbol	CHRNA7		
Alternative Names	NACHRA7; Neuronal acetylcholine receptor subunit alpha-7		
Entrez Gene	113989832 (Human); 11441 (Mouse); 25302 (Rat)		
SwissProt	P36544 (Human); P49582 (Mouse); Q05941 (Rat)		
Storage/Stability	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.		

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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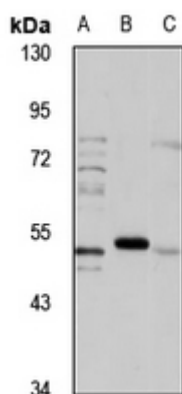
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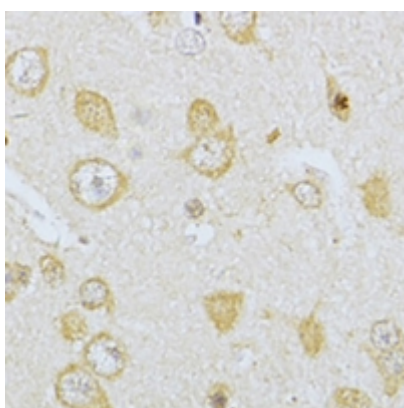
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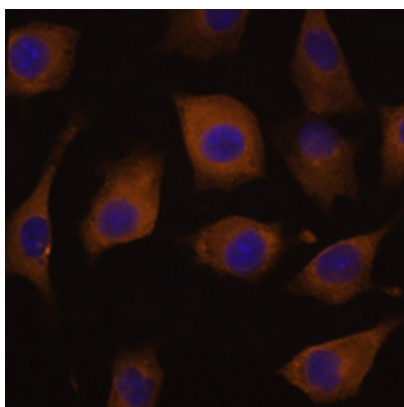
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Western blot analysis of AChR alpha 7 expression in SGC7901 (A), mouse heart (B), rat brain (C) whole cell lysates. (Predicted band size: 11; 56; 59 kD; Observed band size: 53 kD)



Immunohistochemical analysis of AChR alpha 7 staining in rat brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of AChR alpha 7 staining in L929 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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