

Anti-CHRNA7 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken)
Molecular Weight:	Theoretical: 55 kDa. Actual: 55 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: human kidney tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-CHRNA7 Polyclonal Antibody, Unconjugated (TMAB-00430) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C. DAPI (5 µg/ml,blue) was used to stain the cell nucleus.

2. Sample:

Lane 1: Human SH-SY5Y cell Lysates

Lane 2: Human U-87 MG cell Lysates

Lane 3: Human U251 cell Lysates

Primary: Anti-CHRNA7 (TMAB-00430) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kDa

Observed band size: 55 kDa

Verified Activity:

3. Sample:

Lane 1: Cerebrum (Rat) Lysate at 40 µg

Lane 2: Cerebrum (Mouse) Lysate at 40 µg

Lane 3: Adrenal glands (Rat) Lysate at 40 µg

Lane 4: Adrenal glands (Mouse) Lysate at 40 µg

Lane 5: Placenta (Mouse) Lysate at 40 µg

Lane 6: Lung (Mouse) Lysate at 40 µg

Lane 7: Testis (Rat) Lysate at 40 µg

Lane 8: HepG2 (Human) Cell Lysate at 30 µg

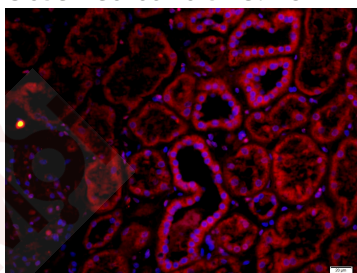
Lane 9: SH-SY5Y (Human) Cell Lysate at 30 µg

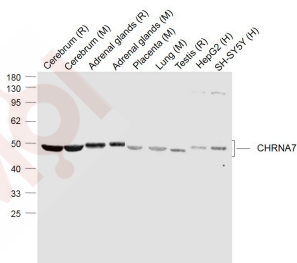
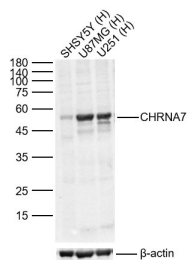
Primary: Anti-CHRNA7 (TMAB-00430) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 56/50 kDa

Observed band size: 48 kD





Application: WB
 Recommended WB=1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
 Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human CHRNA7
 Antigen Species: Human
 Gene ID: 1139
 Uniprot ID: P36544
 Synonyms: alpha7 nicr; Neuronal acetylcholine receptor subunit alpha-7; CHR FAM7A; MGC120482; D10; D 10; ALPHA7; Acra7; ACHA7; MGC120483; CHRNA7 DR1; AChR alpha 7 Receptor; alpha 7 neuronal nicotinic acetylcholine receptor FAM7A hybrid; NARAD; ACHR ALPHA 7; CHRNA7 FAM7A fusion protein; BTX; CHRNA7; CHRNA7-2; ALPHA7 NICOTINIC ACETYLCHOLINE RECEPTOR; CHRNA7 (cholinergic receptor nicotinic alpha 7 exons 5 10) and FAM7A(family with sequence similarity 7A exons A E) fusion; NACHR alpha7; ALPHA-7NACHR; NACHRA7; CHRNA7 FAM7A fusion; cholinergic receptor, nicotinic, alpha 7
 Biology Area: nAch Receptors, Hypoxia, Response to hypoxia

Research Background

The Nicotinic Acetylcholine Receptors are members of a superfamily of ligand gated ion channels that mediate fast signal transmission at synapses. These receptors are thought to be hetero pentamers composed of homologous subunits. The proposed structure for each subunit is a conserved N terminal extracellular domain followed by three conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C terminal extracellular region. The Nicotinic Acetylcholine Receptor alpha 7 forms a homo oligomeric channel, displays marked permeability to calcium ions and is a major component of brain nicotinic receptors that are blocked by, and highly sensitive to, alpha bungarotoxin. Once this receptor binds acetylcholine, it undergoes an extensive change in conformation that affects all subunits and leads to opening of an ion conducting channel across the plasma membrane.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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