

CHRFAM7A (Z-23): sc-133458

BACKGROUND

Chromosome 15 encodes over 700 genes and comprises nearly 3% of the human genome. CHRFAM7A, a fusion protein comprised of FAM7A and AChR α 7, is encoded by the CHRFAM7A gene, which is located on a region of human chromosome 15 that is associated with several neuropsychiatric disorders, such as schizophrenia and bipolar affective disorder. CHRFAM7A, also known as D-10 or CHRNA7, is a 412 amino acid multi-pass membrane protein that belongs to the nicotinic acetylcholine receptor (nAChR) subfamily of ligand-gated ion channel proteins, a protein superfamily that mediates signal transmission at synapses. CHRFAM7A is expressed in the hippocampus. Alternative splicing of the CHRFAM7A gene produces two splice variants.

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CHROMOSOMAL LOCATION

Genetic locus: CHRFAM7A (human) mapping to 15q13.2; Chrna7 (mouse) mapping to 7 C.

SOURCE

CHRFAM7A (Z-23) is an affinity purified rabbit polyclonal antibody raised against synthetic CHRFAM7A peptide of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 500 μ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

CHRFAM7A (Z-23) is recommended for detection of CHRFAM7A of mouse, rat, human, zebrafish and canine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CHRFAM7A siRNA (h): sc-105204, CHRFAM7A shRNA Plasmid (h): sc-105204-SH and CHRFAM7A shRNA (h) Lentiviral Particles: sc-105204-V.

Molecular Weight (predicted) of CHRFAM7A: 46 kDa.

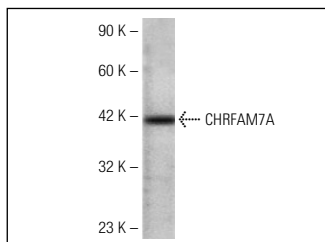
Molecular Weight (observed) of CHRFAM7A: 41 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



CHRFAM7A (Z-23): sc-133458. Western blot analysis of CHRFAM7A expression in Jurkat whole cell lysate.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.