

FT β (X-28): sc-137

BACKGROUND

Mammalian protein farnesyl transferases are heterodimeric proteins containing two nonidentical α and β subunits that attach farnesyl residues to a cysteine at the fourth position from the COOH terminus of several proteins, including nuclear lamins and p21Ras proteins. The natural substrates contain the Cys-A-A-Xaa recognition sequence, where the A residues are aliphatic and Xaa represents methionine, serine, glutamine or cysteine. The purified farnesyl transferase is an α - β heterodimer. The β subunit, which is known as FT β , CAAX farnesyltransferase subunit β , or Ras proteins prenyltransferase subunit β , is a 437 amino acid protein that contains 5 PFTB repeats and binds the peptide substrate. The α subunit is suspected to participate in formation of a stable complex with the substrate farnesyl pyrophosphate.

CHROMOSOMAL LOCATION

Genetic locus: FNTB (human) mapping to 14q23.3; Fntb (mouse) mapping to 12 C3.

SOURCE

FT β (X-28) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of FT β of rat origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FT β (X-28) is recommended for detection of FT β of mouse, rat and human 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FT β (X-28) is also recommended for detection of FT β in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FT β siRNA (h): sc-35417, FT β siRNA (m): sc-35418, FT β siRNA (r): sc-77354, FT β shRNA Plasmid (h): sc-35417-SH, FT β shRNA Plasmid (m): sc-35418-SH, FT β shRNA Plasmid (r): sc-77354-SH, FT β shRNA (h) Lentiviral Particles: sc-35417-V, FT β shRNA (m) Lentiviral Particles: sc-35418-V and FT β shRNA (r) Lentiviral Particles: sc-77354-V.

Molecular Weight of FT β : 46 kDa.

Positive Controls: 3611-RF whole cell lysate: sc-2215, A-431 whole cell lysate: sc-2201 or JAR cell lysate: sc-2276.

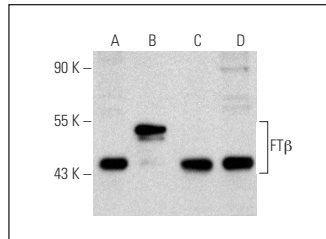
STORAGE

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

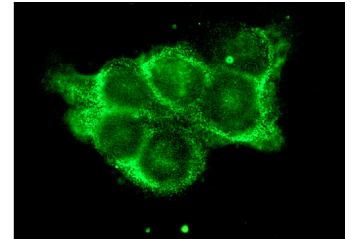
RESEARCH USE

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

DATA



FT β (X-28): sc-137. Western blot analysis of FT β expression in non-transfected 293T: sc-117752 (A), human FT β transfected 293T: sc-158522 (B), A-431 (C) and JAR (D) whole cell lysates.



FT β (X-28): sc-137. Immunofluorescence staining of methanol-fixed A-431 cells showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

- Vogt, A., et al. 1995. Burkitt lymphoma Daudi cells contain two distinct farnesyltransferases with different divalent cation requirements. *Biochemistry* 34: 12398-12403.
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- Smith, V., et al. 2002. Establishment and characterization of acquired resistance to the farnesyl protein transferase inhibitor R115777 in a human colon cancer cell line. *Clin. Cancer Res.* 8: 2002-2009.
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- Beszédes, S., et al. 2011. Comparison of the effects of microwave irradiation with different intensities on the biodegradability of sludge from the dairy- and meat-industry. *Bioresour. Technol.* 102: 814-821.
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 MONOS
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Try FT β (B-7): sc-46664, our highly recommended monoclonal alternative to FT β (X-28).