SANTA CRUZ BIOTECHNOLOGY, INC.

Septin 8 (N-15): sc-48937



BACKGROUND

Septins are members of a conserved family of cytoskeletal GTPases, specifically belonging to the large superclass of P-loop GTPases. Septin proteins form homo- and hetero-oligomeric polymers that accumulate into higher-order filaments which may function as dynamic protein scaffolds. Septins play an important role in vesicle trafficking, apoptosis, cytoskeleton remodeling, infection, neurodegeneration, neoplasia and cytokinesis. Septin 8 is a 508 amino acid protein that is expressed in the brain, cardiovascular regions, prostate, testis and ovary. Septin 8 interacts with both Septin 5 and cell division cycle related-1 (CDCrel-1). Septin 8 may play an important role in the functional regulation of hPFTAIRE1, a member of the Cdc2-related kinase family that is localized in cytoplasm. Septin 8, Septin 4 and Septin 5 surround α -granules, implicating these three septins as components of the septin complex in platelets and contributing to platelet biology.

CHROMOSOMAL LOCATION

Genetic locus: SEPT8 (human) mapping to 5q31.1; Sept8 (mouse) mapping to 11 B1.3.

SOURCE

Septin 8 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Septin 8 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-48937 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Septin 8 (N-15) is recommended for detection of Septin 8 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Septin 8 (N-15) is also recommended for detection of Septin 8 in additional species, including bovine and porcine.

Suitable for use as control antibody for Septin 8 siRNA (h): sc-61530, Septin 8 siRNA (m): sc-61531, Septin 8 shRNA Plasmid (h): sc-61530-SH, Septin 8 shRNA Plasmid (m): sc-61531-SH, Septin 8 shRNA (h) Lentiviral Particles: sc-61530-V and Septin 8 shRNA (m) Lentiviral Particles: sc-61531-V.

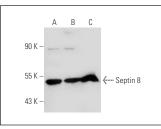
Molecular Weight of Septin 8: 50 kDa.

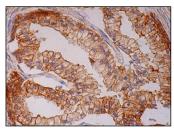
Positive Controls: K-562 whole cell lysate: sc-2203, Septin 8 (h): 293 Lysate: sc-110604 or HeLa whole cell lysate: sc-2200.

STORAGE

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

DATA





Septin 8 (N-15): sc-48937. Western blot analysis of Septin 8 expression in non-transfected 2937: sc-11752 (**A**), human Septin 8 transfected 2937: sc-110604 (**B**) and HeLa (**C**) whole cell lysates.

Septin 8 (N-15): sc-48937. Immunoperoxidase staining of formalin fixed, paraffin-embedded human prostate tissue showing membrane and cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

- Li, L., et al. 2011. Proteins linked to extinction in contextual fear conditioning in the C57BL/6J mouse. Proteomics 11: 3706-3724.
- Froidevaux-Klipfel, L., et al. 2011. Modulation of septin and molecular motor recruitment in the microtubule environment of the Taxol-resistant human breast cancer cell line MDA-MB-231. Proteomics 11: 3877-3886.
- Menon, M.B., et al. 2014. Genetic deletion of SEPT7 reveals a cell typespecific role of septins in microtubule destabilization for the completion of cytokinesis. PLoS Genet. 10: e1004558.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfation Guaranteed

Try Septin 8 (C-5): sc-390074 or Septin 8 (D-7): sc-390105, our highly recommended monoclonal alternatives to Septin 8 (N-15).