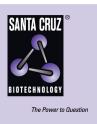
SANTA CRUZ BIOTECHNOLOGY, INC.

Chondroitinase (C-14): sc-68445



BACKGROUND

Chondroitinase, also known as GALNS (galactosamine (N-acetyl)-6-sulfate sulfatase), GAS or MPS4A, is a 522 amino acid protein that localizes to the lysosome and functions as an exohydrolase that is essential for the degradation of glycosaminoglycans, keratan sulfate and chondroitin 6-sulfate. Using calcium as a cofactor, Chondroitinase, which exists as a disulfide linked oligomer, catalyzes the hydrolysis of the 6-sulfate group on target substrates. Defects in the gene encoding Chondroitinase are the cause of mucopoly-saccharidosis type 4A (MPS4A), an autosomal recessive lysosomal storage disease that is characterized by the intracellular accumulation of keratan sulfate and chondroitin-6-sulfate and is associated with dental anomalies, short stature and, in some cases, death in the second or third decade of life.

CHROMOSOMAL LOCATION

Genetic locus: GALNS (human) mapping to 16q24.3; Galns (mouse) mapping to 8 E1.

SOURCE

Chondroitinase (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Chondroitinase 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-68445 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Chondroitinase (C-14) is recommended for detection of Chondroitinase 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).

Chondroitinase (C-14) is also recommended for detection of Chondroitinase in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Chondroitinase siRNA (h): sc-72902, Chondroitinase siRNA (m): sc-72903, Chondroitinase shRNA Plasmid (h): sc-72902-SH, Chondroitinase shRNA Plasmid (m): sc-72903-SH, Chondroitinase shRNA (h) Lentiviral Particles: sc-72902-V and Chondroitinase shRNA (m) Lentiviral Particles: sc-72903-V.

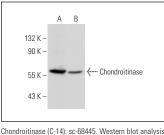
Molecular Weight of Chondroitinase: 58 kDa.

Positive Controls: rat liver extract: sc-2395 or NIH/3T3 whole cell lysate: sc-2210.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (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). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



of Chondroitinase expression in rat liver tissue extract (A) and NIH/3T3 whole cell lysate (B).

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 **Chondroitinase (G-4): sc-390713**, our highly recommended monoclonal alternative to Chondroitinase (C-14).