SANTA CRUZ BIOTECHNOLOGY, INC.

Asparagine synthetase (N-14): sc-46787



BACKGROUND

Glutamine-hydrolyzing Asparagine synthetase is also commonly designated cell cycle control protein TS11. Asparagine synthetase plays an important role in the amino-acid biosynthesis pathway and is also important for L-asparagine biosynthesis. Via the L-glutamine route, Asparagine synthetase is involved in the synthesis of L-asparaine from L-aspartate. The protein contains one Asparagine synthetase domain and one type-2 glutamine amidotransferase domain. The cell-cycle regulated gene encoding for Asparagine synthetase, TS11, is necessary for G₁ progression.

CHROMOSOMAL LOCATION

Genetic locus: ASNS (human) mapping to 7q21.3; Asns (mouse) mapping to 6 A1.

SOURCE

Asparagine synthetase (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Asparagine synthetase 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-46787 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Asparagine synthetase (N-14) is recommended for detection of Asparagine synthetase 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

Suitable for use as control antibody for Asparagine synthetase siRNA (h): sc-60212, Asparagine synthetase siRNA (m): sc-60213, Asparagine synthetase shRNA Plasmid (h): sc-60212-SH, Asparagine synthetase shRNA Plasmid (m): sc-60213-SH, Asparagine synthetase shRNA (h) Lentiviral Particles: sc-60212-V and Asparagine synthetase shRNA (m) Lentiviral Particles: sc-60213-V.

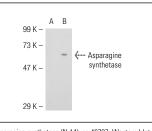
Molecular Weight of Asparagine synthetase: 64 kDa.

Positive Controls: Asparagine synthetase (m): 293T Lysate: sc-118591.

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



Asparagine synthetase (N-14): sc-46787. Western blot analysis of Asparagine synthetase expression in non-transfected: sc-117752 (A) and mouse Asparagine synthetase transfected: sc-118591 (B) 293T whole cell lysates

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 Asparagine synthetase (G-10): sc-365809 or Asparagine synthetase (F-3): sc-376151, our highly recommended monoclonal aternatives to Asparagine synthetase (N-14). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see Asparagine synthetase (G-10): sc-365809.