Aminopeptidase P3 (Y-18): sc-86285



The Power to Question

BACKGROUND

Aminopeptidases comprise a family of enzymatic proteins that are widely distributed in both eukaryotes and prokaryotes and function to catalyze the removal of amino acids from the N-termini of proteins. Aminopeptidase P3, also known as APP3 or XPNPEP3, is a 507 amino acid protein that belongs to the aminopeptidase family. Expressed throughout the body, Aminopeptidase P3 uses manganese as a cofactor to catalyze the release of any proline-linked N-terminal amino acid, including those that exist in di- or tripeptides. Aminopeptidase P3 exists as three alternatively spliced isoforms which are encoded by a gene that maps to chromosome 22. Chromosome 22 houses over 500 genes, some of which are involved in Phelan-McDermid syndrome, schizophrenia and Neurofibromatosis type 2.

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CHROMOSOMAL LOCATION

Genetic locus: XPNPEP3 (human) mapping to 22q13.2; Xpnpep3 (mouse) mapping to 15 E1.

SOURCE

Aminopeptidase P3 (Y-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Aminopeptidase P3 of human origin.

PRODUCT

Each vial contains 100 μg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86285 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Aminopeptidase P3 (Y-18) is recommended for detection of Aminopeptidase P3 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).

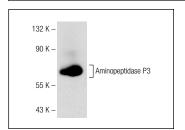
Aminopeptidase P3 (Y-18) is also recommended for detection of Aminopeptidase P3 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for Aminopeptidase P3 siRNA (h): sc-105061, Aminopeptidase P3 siRNA (m): sc-141048, Aminopeptidase P3 shRNA Plasmid (h): sc-105061-SH, Aminopeptidase P3 shRNA Plasmid (m): sc-141048-SH, Aminopeptidase P3 shRNA (h) Lentiviral Particles: sc-105061-V and Aminopeptidase P3 shRNA (m) Lentiviral Particles: sc-141048-V.

Molecular Weight of Aminopeptidase P3: 57 kDa.

Positive Controls: mouse heart extract: sc-2254.

DATA



Aminopeptidase P3 (Y-18): sc-86285. Western blot analysis of Aminopeptidase P3 expression in mouse heart tissue extract.

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.

PROTOCOLS

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

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