α-S1-casein (M-300): sc-98699



The Power to Question

BACKGROUND

 $\alpha\textsc{-S1-case}$ in, also known as CSN1S1, CSN1 or CASA, is a 185 amino acid secreted protein that is mammary gland-specific and belongs to the $\alpha\textsc{-case}$ in family. Existing as a disulfide-linked heterodimer with $\kappa\textsc{-case}$ in, $\alpha\textsc{-S1-case}$ in plays an important role in the ability of milk to transport calcium phosphate, a family of minerals that are key components of bone and teeth. $\alpha\textsc{-S1-case}$ in exists as multiple alternatively spliced isoforms and is encoded by a gene which maps to a region on human chromosome 4 that encodes other case in family members. Chromosome 4 houses nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes. Defects in some of the genes located on chromosome 4 are associated with Huntington's disease, Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Csn1s1 (mouse) mapping to 5 E1.

SOURCE

 α -S1-casein (M-300) is a rabbit polyclonal antibody raised against amino acids 14-313 mapping at the C-terminus of α -S1-casein of mouse origin.

PRODUCT

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

APPLICATIONS

 $\alpha\textsc{-S1-case}$ in (M-300) is recommended for detection of $\alpha\textsc{-S1-case}$ in of mouse and rat 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).

Suitable for use as control antibody for α -S1-casein siRNA (m): sc-72411, α -S1-casein shRNA Plasmid (m): sc-72411-SH and α -S1-casein shRNA (m) Lentiviral Particles: sc-72411-V.

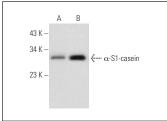
Molecular Weight of α -S1-casein: 22/35 kDa.

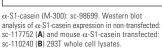
Positive Controls: α -S1-casein (m): 293T Lysate: sc-110240.

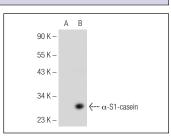
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA







 α -S1-casein (M-300): sc-98699. Western blot analysis of α -S1-casein expression in non-transfected: sc-117752 (**A**) and mouse α -S1-casein transfected: sc-118118 (**B**) 293T whole cell Ivsates

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.