



## Rabbit Anti-Alpha s1 Casein antibody

SL10033R

<b>Product Name:</b>	Alpha s1 Casein
<b>Chinese Name:</b>	$\alpha$ -s1酪蛋白抗体
<b>Alias:</b>	Alpha s1 Casein; alpha-S1-casein precursor; Alpha-S1-casein; CSN1S1; CSN1; Bos d 8; Antioxidant peptide; CASA1 BOVIN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Cow,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-F=1:400-800 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	23kDa
<b>Cellular localization:</b>	Secretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from cow Alpha s1 Casein:75-214/214
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 $\Sigma$ C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20 $\Sigma$ C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $\Sigma$ C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	alpha-S1-casein, also known as CSN1S1, CSN1 or CASA, is a 185 amino acid secreted protein that is mammary gland-specific and belongs to the alpha-casein family. Existing as a disulfide-linked heterodimer with $\kappa$ -casein, alpha-S1-casein 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-S1-casein exists as multiple alternatively spliced isoforms and is encoded by a gene which maps to a region on human chromosome 4 that encodes other casein 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.

**Function:**

Important role in the capacity of milk to transport calcium phosphate.  
Antioxidant peptide has 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical scavenging activity.

**Subcellular Location:**

Secreted.

**Tissue Specificity:**

Mammary gland specific. Secreted in milk.

**Similarity:**

Belongs to the alpha-casein family.

**SWISS:**

P02662

**Gene ID:**

282208

**Database links:**

[Entrez Gene: 282208](#) Bovin

[Entrez Gene: 1446](#)Human

[Omim: 115450](#)Human

[SwissProt: P47710](#)Human

[SwissProt: P02662](#) Bovin

[Unigene: 3155](#)Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.