



Rabbit Anti-S100A6 antibody

SL10098R

Product Name:	S100A6
Chinese Name:	S100钙Binding proteinA6抗体
Alias:	S100 alpha 6 PRA; Calcyclin; PRAGrowth factor inducible protein 2A9; Prolactin receptor associated protein; Prolactin receptor-associated protein; Protein S100 A6; Protein S100-A6; S100 A6; S100 calcium binding protein A6 (calcyclin); S100 calcium binding protein A6; S100 calcium-binding protein A6; S100A6; S100A6_HUMAN; S100-A6; 2A9; 5B10; CABP; CACY; Calcyclin; Growth factor inducible protein 2A9; Growth factor-inducible protein 2A9; MLN 4; MLN4.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	10kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human S100A6:15-70/90
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °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°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 °C.
PubMed:	PubMed
Product Detail:	Calcyclin, also known as Protein S100-A6, growth factor-inducible protein 2A9, S-100 calcium-binding protein A6 (S-100A6) or MLN 4, is a homodimeric member of the S-

100 calcium-binding protein family whose expression is upregulated in proliferating and differentiating cells. Calcyclin is inducible by growth factors and overexpressed in acute myeloid leukemias. It is expressed in a cell-specific manner in subpopulations of neurons and astrocytes and in epithelial cells and fibroblasts. Calcyclin is a specific target of S-100B protein in vivo. The binding of Calcyclin to S-100B is stabilized by S-100B-bound calcium and zinc. Calcyclin associates with both Annexin XI and CacyBP (calcyclin-binding protein). It functions to activate several processes along the calcium signal transduction pathway including the regulation of cell growth, proliferation, secretion and exocytosis.

Function:

May function as calcium sensor and contribute to cellular calcium signaling (Potential). May function by interacting with other proteins and indirectly play a role in the reorganization of the actin cytoskeleton and in cell motility. Binds 2 calcium ions. Calcium binding is cooperative.

Subunit:

Homodimer; head to tail assembly of 2 subunits. Interacts with CACYBP. Interacts with ANXA2 and ANXA11 (via N-terminus). Interacts with SUGT1. Interacts with TP53; has higher affinity for TP53 that is phosphorylated on its N-terminal domain, and lower affinity for TP53 that is phosphorylated on its C-terminal domain. Interacts with tropomyosin. Interacts with FKBP4. Interacts with CACYBP in a calcium-dependent manne.

Subcellular Location:

Nucleus envelope. Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side.

Post-translational modifications:

The N-terminus is blocked.

Similarity:

Belongs to the S-100 family. Contains 2 EF-hand

SWISS:

P06703

Gene ID:

6277

Database links:

[Entrez Gene: 6277](#)Human

[Entrez Gene: 20200](#)Mouse

[Entrez Gene: 85247](#)Rat

[Omin: 114110](#) Human

[SwissProt: P06703](#)Human

[SwissProt: P14069](#)Mouse

[SwissProt: P05964](#)Rat

[Unigene: 275243](#)Human

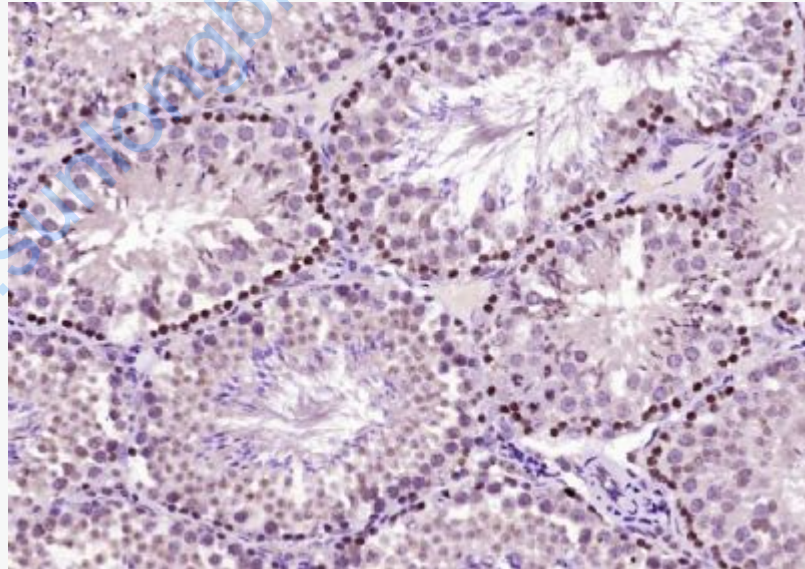
[Unigene: 100144](#)Mouse

[Unigene: 3233](#)Rat

Important Note:

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

Picture:



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (S100A6) Polyclonal Antibody, Unconjugated

(SL10098R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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