



Rabbit Anti-S100A13 antibody

SL2617R

Product Name:	S100A13
Chinese Name:	S100A13抗体
Alias:	Protein S100 A13; S100 calcium binding protein A13; S10AD_HUMAN; Protein S100-A13; S100 calcium-binding protein A13; S100a13.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	11.5kDa
Cellular localization:	cytoplasmicSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human S100A13:51-98/98
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:	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein is widely expressed in various types of tissues with a high expression level in thyroid gland. In

smooth muscle cells, this protein co-expresses with other family members in the nucleus and in stress fibers, suggesting diverse functions in signal transduction. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Function:

Plays a role in the export of proteins that lack a signal peptide and are secreted by an alternative pathway. Binds two calcium ions per subunit. Binds one copper ion. Binding of one copper ion does not interfere with calcium binding. Required for the copper-dependent stress-induced export of IL1A and FGF1. The calcium-free protein binds to lipid vesicles containing phosphatidylserine, but not to vesicles containing phosphatidylcholine.

Subunit:

Homodimer. Part of a copper-dependent multiprotein complex containing S100A13, FGF1 and SYT1. Interacts with FGF1 and SYT1.

Subcellular Location:

Cytoplasm. Secreted. Secretion is mediated by exposure to stress and requires copper ions.

Tissue Specificity:

Expressed in heart and skeletal muscle.

Similarity:

Belongs to the S-100 family.
Contains 1 EF-hand domain.

SWISS:

Q99584

Gene ID:

6284

Database links:

[Entrez Gene: 6284](#)Human

[Olim: 601989](#)Human

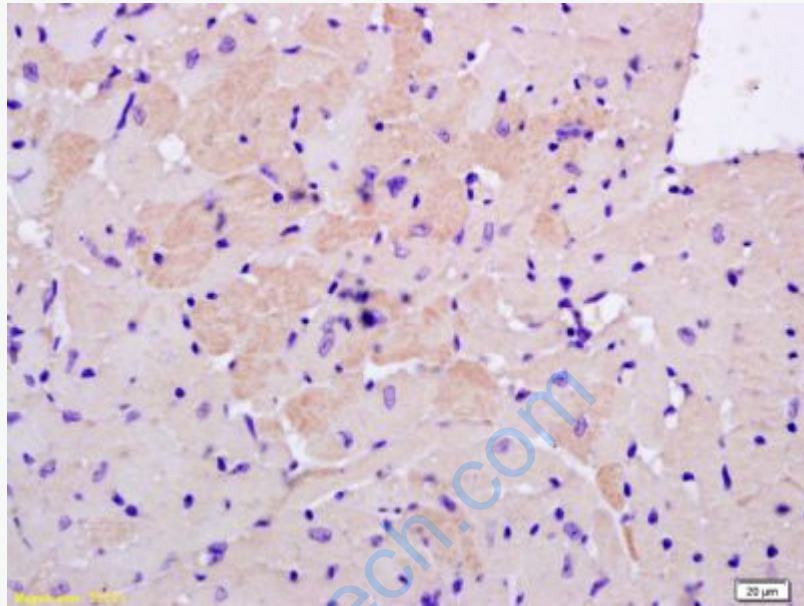
[SwissProt: Q99584](#)Human

[Unigene: 516505](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.



Picture:

Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-S100A13 Polyclonal Antibody, Unconjugated(SL2617R) 1:200,
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining