

**Anti-S100 Alpha 6 Picoband Antibody**  
**Catalog # ABO12362****Specification**

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**Anti-S100 Alpha 6 Picoband Antibody - Product Information**

Application	WB, IHC, IHC-P, IC, ICC
Primary Accession	<a href="#">P06703</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Protein S100-A6(S100A6) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-S100 Alpha 6 Picoband Antibody - Additional Information**

**Gene ID** 6277

**Other Names**

Protein S100-A6, Calcyclin, Growth factor-inducible protein 2A9, MLN 4, Prolactin receptor-associated protein, PRA, S100 calcium-binding protein A6, S100A6, CACY

**Calculated MW**

10180 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br> <br>Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Subcellular Localization**

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

**Protein Name**

Protein S100-A6

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

E.coli-derived human S100 alpha 6 recombinant protein (Position: M1-G90). Human S100 alpha 6 shares 96.6% and 95.5% amino acid (aa) sequence identity with mouse and rat S100 alpha 6, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-S100 Alpha 6 Picoband Antibody - Protein Information**

**Name** S100A6

**Synonyms** CACY

**Function**

May function as calcium sensor and modulator, contributing to cellular calcium signaling. May function by interacting with other proteins, such as TPR-containing proteins, and indirectly play a role in many physiological processes such as the reorganization of the actin cytoskeleton and in cell motility. Binds 2 calcium ions. Calcium binding is cooperative.

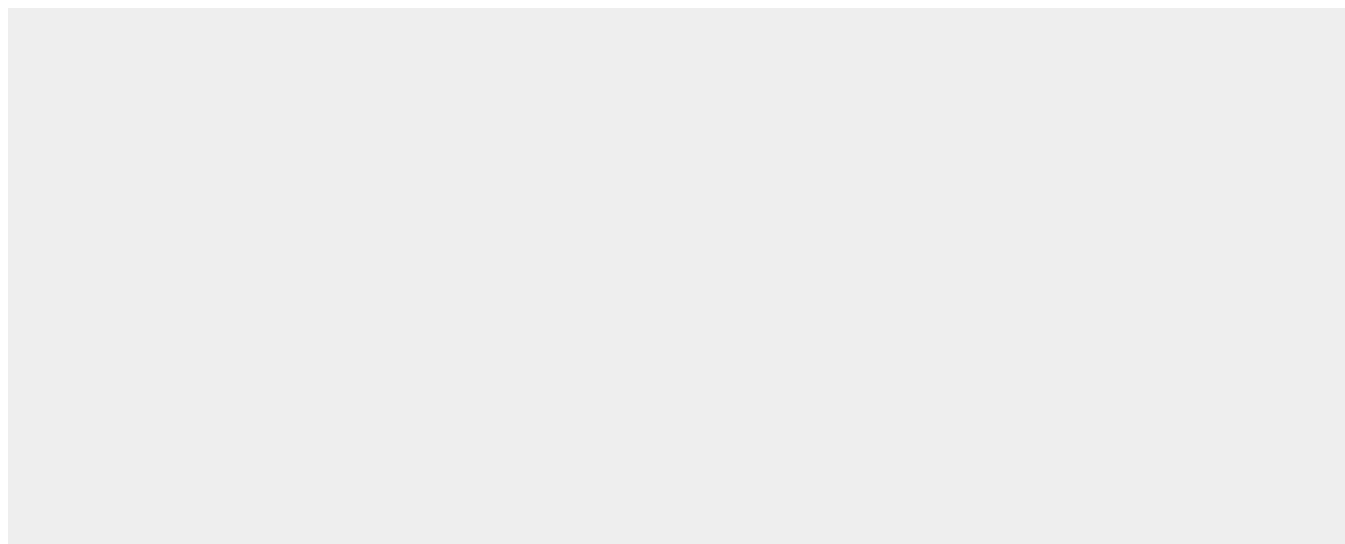
**Cellular Location**

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

**Anti-S100 Alpha 6 Picoband Antibody - Protocols**

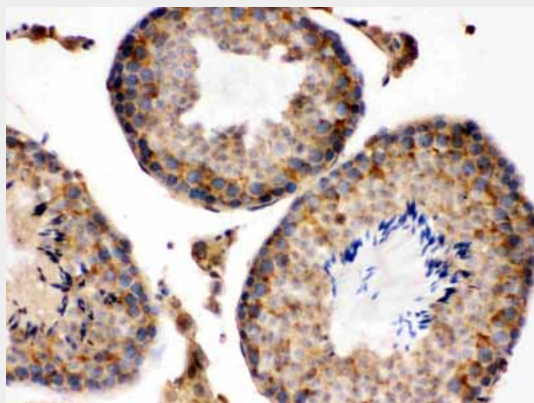
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

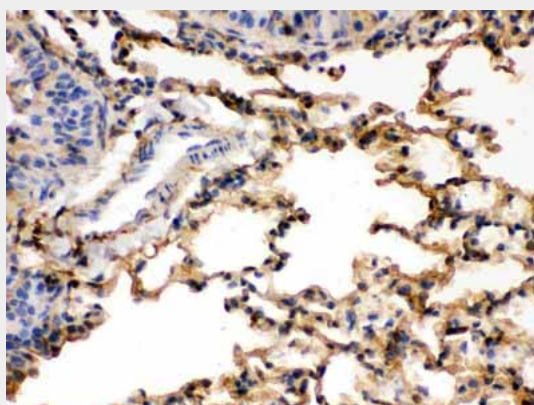
**Anti-S100 Alpha 6 Picoband Antibody - Images**



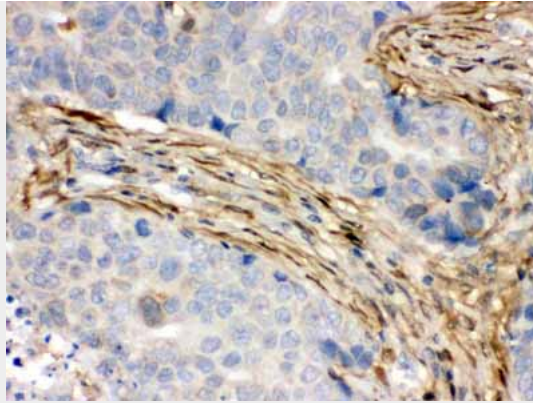
Anti- S100 alpha 6 Picoband antibody, ABO12362, Western blotting All lanes: Anti S100 alpha 6 (ABO12362) at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: A431 Whole Cell Lysate at 40ug Predicted bind size: 10KD Observed bind size: 10KD



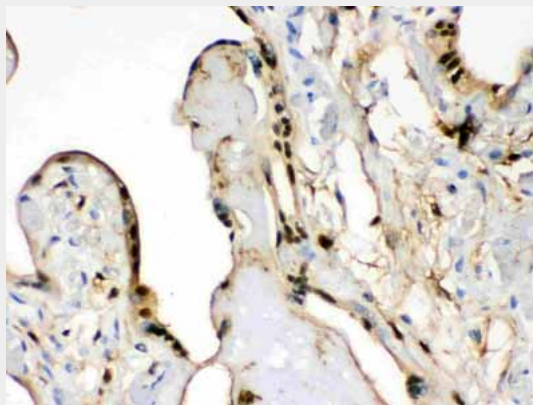
Anti- S100 alpha 6 Picoband antibody, ABO12362, IHC(P) IHC(P): Mouse Testis Tissue



Anti- S100 alpha 6 Picoband antibody, ABO12362, IHC(P) IHC(P): Rat Lung Tissue



Anti- S100 alpha 6 Picoband antibody, ABO12362, IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti- S100 alpha 6 Picoband antibody, ABO12362, IHC(P)IHC(P): Human Placenta Tissue

#### **Anti-S100 Alpha 6 Picoband Antibody - Background**

S100 calcium-binding protein A6 (S100A6) is a protein that in humans is encoded by the S100A6 gene. 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. And S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in stimulation of  $\text{Ca}^{2+}$ -dependent insulin release, stimulation of prolactin secretion, and exocytosis. Chromosomal rearrangements and altered expression of this gene have been implicated in melanoma.