



COSMO BIO Co., LTD.

Inspiration for Life Science

POLYCLONAL ANTIBODY

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**Catalog No. ACC-PA002**

## Anti S100-alpha

### Background :

The S100 protein is a low-molecular-weight, acidic and calcium binding protein that in functional form exist in dimers. S100 has two subunits: S100-alpha (94 aa; human chromosome 1) and S100-beta (92 aa; human chromosome 21) that forms as either homodimers (alpha-alpha known as S-100a(0) or beta-beta known as S-100b) or as heterodimers (known as S-100a) of ~21 kDa. S100-alpha and -beta chains show ~58% sequence identity and are both highly conserved among species. S100-alpha was originally believed to be localized to the CNS, but studies have shown it to be found in numerous tissues including cardiac, skeletal and vascular smooth muscle cells.

<b>Applications:</b>	Western Blotting (WB)	: 0.1 µg/ml
	Immunoprecipitation (IP)	: 5 µg/ml
	Enzyme-linked immunosorbent assay (ELISA)	: assay dependent
	Immunocytochemistry (ICC)	: 1:50 - 1:200
	Immunofluorescence (IF)	: 1 µg/ml
	Immunohistochemistry (Paraffin) (IHC (P))	: 1 µg/ml
<b>Specificity:</b>	S100-alpha protein	
<b>Immunogen:</b>	Purified S100-alpha protein from human pectoral muscle cells.	
<b>Host:</b>	Rabbit	
<b>Reactivity:</b>	Bovine, Human, Mouse, Pig, Rat	
<b>Clonality:</b>	Polyclonal	
<b>Subclass:</b>	IgG	
<b>Purification method:</b>	Affinity purified	
<b>Form:</b>	Liquid (0.1M NaPB, pH7.0, 20 mg/ml BSA, 0.1% Sodium Azide (NaN <sub>3</sub> ) added)	
<b>Conjugation:</b>	None	
<b>Volume:</b>	50 µg (1 mg/ml)	
<b>Storage condition:</b>	-20°C	

**References:** Kato K, Haimoto H, Ariyoshi Y, et al., (1985) High levels of S-100a0 (alpha alpha) protein in tumor tissues and in sera of patients with renal cell carcinoma. *Jpn J Cancer Res.* **76**: 856-62. PMID: 3932285

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【JAPAN】

TOYO EKIMAE BLDG. 2-20, TOYO 2-CHOME,  
KOTO-KU. TOKYO 135-0016, JAPAN  
Phone: +81-3-5632-9610  
FAX: +81-3-5632-9619  
URL: <https://www.cosmobio.co.jp/>



COSMO BIO USA

【Outside Japan】

2792 Loker Ave West, Suite 101  
Carlsbad, CA 92010, USA  
email: [info@cosmobioussa.com](mailto:info@cosmobioussa.com)  
Phone/FAX: (+1) 760-431-4600  
URL: [www.cosmobioussa.com](http://www.cosmobioussa.com)