



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Rabbit anti-S100 calcium-binding protein P antibody

Catalog No. 130-10036	Isotype: Rabbit Ig G	Species: Human	Accession No: P25815
---------------------------------	--------------------------------	--------------------------	--------------------------------

Description

S100 calcium-binding protein P (S100P) is one member of S100 family and shares 50% sequence identity with human S100A1 and 44% identity with S100B. S100P contains 2 EF-hands (calcium binding domains) with different affinities for Ca^{2+} , Zn^{2+} and Mg^{2+} , a central hinge region and the C-terminal extension. S100P presents in various normal tissues (such as lung, placenta, kidney, heart, bladder, spleen, bone marrow, prostate gland, and intestinal mucosa), malignant tissues (such as non-small-cell lung cancer, melanoma, gastric adenocarcinoma, ovarian, breast, colon and prostate carcinoma), and the body fluids (such as blood, pancreatic juice, tear, and urine).

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:80000 (at least detecting 12.5 ng/ml)
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Preparation

Immunogen was recombinant protein derived from Human S100P. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum by ammonium sulphate precipitation followed by Protein A/G affinity chromatography.

Binding Activity

The antibody can specifically bind to its immunogen, and did not show any cross reactivity with unrelated antigens in ELISA. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse and rat S100P was not tested yet.

Reconstitution

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, like Sodium Azide. *It final concentration is indicated in shipping vial.*

The antibody is stable for at least years from the data of receipt when stored at -20°C to -70°C . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at -20°C to -70°C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can also be stored over months at 4°C . **Please avoid freeze-thaw cycles.**

Storage

Keep it at 4°C if intended for use within a month. Store at -20°C if over months. **Minimize freezing and thawing when use.**

Related products

1. Recombinant Human S100P (cat#228-11396-3)
2. Recombinant Human S100 Calcium Binding Protein P(cat#230-00031-3)

Reference

Donato R. S100: a multigenic family of calciummodulated proteins of the EF-hand type with intracellular and extracellular functional roles. *Int J Biochem Cell Biol.*2001. 33(7): 637-68.

Basu GD, et al. Functional evidence implicating S100P in prostate cancer progression. *Int J Cancer.*2008. 15;123(2):330-9.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**