# ARG66241
# anti-S100P antibody [SQab1730]

Package: 100 µl, 50 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Recombinant Rabbit Monoclonal antibody [SQab1730] recognizes S100P |
| Tested Reactivity | Hu |
| Tested Application | FACS, ICC/IF, IHC-P |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone | SQab1730 |
| Isotype | IgG |
| Target Name | S100P |
| Species | Human |
| Immunogen | Synthetic peptide around the C-terminus of Human S100P. |
| Conjugation | Un-conjugated |
| Alternate Names | S100 calcium-binding protein P; MIG9; Protein S100-P; Migration-inducing gene 9 protein; Protein S100-E |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| FACS | 1:10 - 1:50 |
| ICC/IF | 1:1000 - 1:2000 |
| IHC-P | 1:200 - 1:400 |

Application Note: IHC-P: Antigen Retrieval: Boil tissue section in Tris/EDTA buffer (pH 9.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

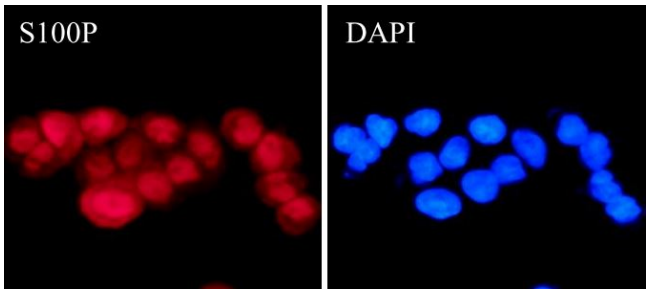
| | |
|---|---|
| Form | Liquid |
| Purification | Purification with Protein A. |
| Buffer | PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA. |
| Preservative | 0.01% Sodium azide |
| Stabilizer | 40% Glycerol and 0.05% BSA |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

| | |
|---|---|
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

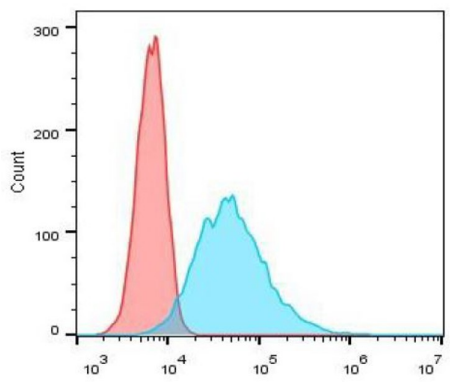
| | |
|---|---|
| Gene Symbol | S100P |
| Gene Full Name | S100 calcium binding protein P |
| Background | The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range 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; however, this gene is located at 4p16. This protein, in addition to binding Ca2+, also binds Zn2+ and Mg2+. This protein may play a role in the etiology of prostate cancer. [provided by RefSeq, Jul 2008] |
| Function | May function as calcium sensor and contribute to cellular calcium signaling. In a calcium-dependent manner, functions by interacting with other proteins, such as EZR and PPP5C, and indirectly plays a role in physiological processes like the formation of microvilli in epithelial cells. May stimulate cell proliferation in an autocrine manner via activation of the receptor for activated glycation end products (RAGE). [UniProt] |
| Highlight | Related products:<br>Anti-Rabbit IgG secondary antibodies;<br>Related news:<br>Cancer Pathology Markers (SQ clones) |
| Calculated Mw | 10 kDa |

## Images



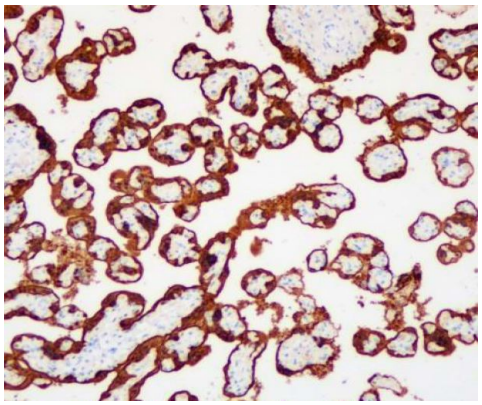

ARG66241 anti-S100P antibody [SQab1730] ICC/IF image

Immunofluorescence: HT-29 cells were fixed with 4% paraformaldehyde for 30 min at RT, permeabilized with 0.1% Triton X-100 for 10 min at RT then blocked with 10% goat serum for 30 min at room temperature. Cells were stained with ARG66241 anti-S100P antibody [SQab1730] (red) at 1:2000 and 4°C. DAPI (blue) was used as the nuclear counter stain.



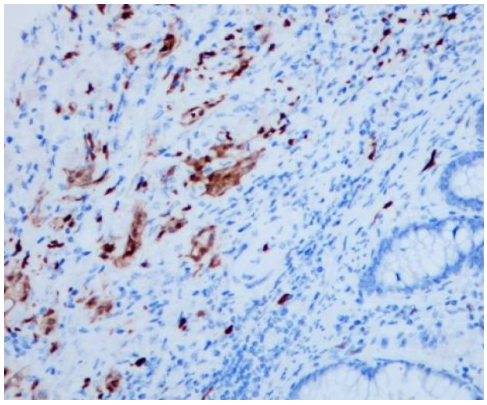

ARG66241 anti-S100P antibody [SQab1730] FACS image

Flow Cytometry: BxPC-3 cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then stained with ARG66241 anti-S100P antibody [SQab1730] (blue) at 1:50 dilution in 1x PBS/1% BSA for 30 min at room temperature, followed by Alexa Fluor® 488 labelled secondary antibody. Unlabelled sample (red) was used as a control.



ARG66241 anti-S100P antibody [SQab1730] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human placenta tissue stained with ARG66241 anti-S100P antibody [SQab1730] at 1:200. Antigen Retrieval: Boil tissue section in Tris/EDTA buffer (pH 9.0).



ARG66241 anti-S100P antibody [SQab1730] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human colon tissue stained with ARG66241 anti-S100P antibody [SQab1730] at 1:200. Antigen Retrieval: Boil tissue section in Tris/EDTA buffer (pH 9.0).