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# S100A13 Rabbit pAb

Catalog # AP97723

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q99584 |
| **Other Accession** | Q99584 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Rabbit, Dog, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 11471 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human S100A13 |
| **Epitope Specificity** | 51-98/98 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the S-100 family. Contains 1 EF-hand domain. |
| **SUBUNIT** | Homodimer. Part of a copper-dependent multiprotein complex containing S100A13, FGF1 and SYT1. Interacts with FGF1 and SYT1. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | 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] |

## Additional Information

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| **Gene ID** | 6284 |
| **Other Names** | S10AD_HUMAN; S100A13; S100 calcium-binding protein A13; S100 calcium binding protein A13 |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug/Test |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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. |

## Protein Information

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| **Name** | S100A13 |
| **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 (By similarity). |
| **Cellular Location** | Cytoplasm. Secreted. Note=Secretion is mediated by exposure to stress and requires copper ions |
| **Tissue Location** | Expressed in heart and skeletal muscle. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.