

# Rabbit Monoclonal Antibody to Human S100 Calcium Binding Protein A7

**Cat. No.** CAB11596RH    **Lot. No.** (See product label)

## SPECIFICATION

|                            |   |
|----------------------------|---|
| <b>Product Overview</b>    | Rabbit Monoclonal Antibody to Human S100 Calcium Binding Protein A7   |
| <b>Species</b>             | Human   |
| <b>Source</b>              | Rabbit  |
| <b>Antigen Description</b> | <p>Protein S100-A7, also known as S100 calcium-binding protein A7, Psoriasin, S100A7, and PSOR1, is a secreted protein which belongs to the S-100 family. S100A7 was first isolated from skin involved by psoriasis, which can be induced in cultured squamous epithelial cells. S100A7 is expressed by both normal cultured and malignant keratinocytes and malignant breast epithelial cells within ductal carcinoma in situ, suggesting an association with abnormal pathways of differentiation. S100A7 plays a role in the pathogenesis of inflammatory skin disease, as a chemotactic factor for hematopoietic cells. It also plays a role in early stages of breast tumor progression in association with the development of the invasive phenotype.</p> |
| <b>Specificity</b>         | Human S100A7. No cross-reactivity in ELISA with Human S100A8SS; Human cell lysate (293 cell line)   |
| <b>Immunogen</b>           | Recombinant Human S100A7 Protein  |
| <b>Isotype</b>             | Rabbit IgG  |
| <b>Clone</b>               | A031  |

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| <b>Applications</b> | Western blot; ELISA   |
| <b>Dilution</b>     | Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human S100A7 in WB. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human S100A7. The detection limit for Human S100A7 is approximately 0.00975 ng/well.  |
| <b>Preparation</b>  | This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human S100A7  |
| <b>Format</b>       | 0.2 µm filtered solution in PBS with 5% trehalose   |
| <b>Storage</b>      | This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles. |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | S100A7 S100 calcium binding protein A7 [ Homo sapiens ]   |
| <b>Official Symbol</b> | S100A7  |
| <b>Synonyms</b>        | S100A7; S100 calcium binding protein A7; PSOR1,S100 calcium binding protein A7 (psoriasin 1) ,S100 calcium binding protein A7 (psoriasin 1); protein S100-A7; S100A7c; psoriasin 1; S100 calcium-binding protein A7 (psoriasin 1); PSOR1; |
| <b>Gene ID</b>         | 6278  |
| <b>mRNA Refseq</b>     | NM_002963   |

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| <b>Protein Refseq</b>      | NP_002954  |
| <b>MIM</b>                 | 600353   |
| <b>UniProt ID</b>          | P31151   |
| <b>Chromosome Location</b> | 1q21   |
| <b>Pathway</b>             | Validated targets of C-MYC transcriptional repression, organism-specific biosystem;              |
| <b>Function</b>            | RAGE receptor binding; calcium ion binding; protein binding; zinc ion binding; zinc ion binding; |

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