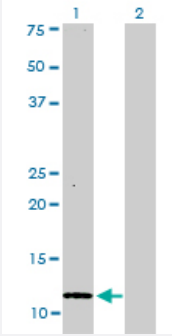
# S100A1 monoclonal antibody (M01), clone 1D5

Catalog # H00006271-M01 Size 100 ug

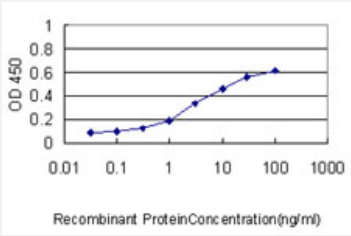
## Applications




### Western Blot (Transfected lysate)

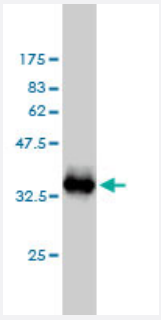
Western Blot analysis of S100A1 expression in transfected 293T cell line by S100A1 monoclonal antibody (M01), clone 1D5.

Lane 1: S100A1 transfected lysate(10.5 KDa).
Lane 2: Non-transfected lysate.




### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged S100A1 is approximately 0.3ng/ml as a capture antibody.




Western Blot detection against Immunogen (33.99 KDa) .

## Specification

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| **Product Description** | Mouse monoclonal antibody raised against a partial recombinant S100A1. |

| | |
|---|---|
| **Immunogen** | S100A1 (NP_006262, 1 a.a. ~ 75 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Sequence** | MGSELETAMETLINVFHAHSGKEGDKYKLSKKELKELLQTELSGFLDAQKDVDAVDKVMKELDE NGDGEVDFQEY |
| **Host** | Mouse |
| **Reactivity** | Human |
| **Interspecies Antigen Sequence** | Mouse (93); Rat (92) |
| **Isotype** | IgG1 kappa |
| **Quality Control Testing** | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (33.99 KDa) . |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot (Transfected lysate)

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  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

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  Protocol Download

- ELISA

## Gene Info — S100A1

| | |
|---|---|
| **Entrez GeneID** | 6271 |
| **GeneBank Accession#** | NM_006271 |
| **Protein Accession#** | NP_006262 |
| **Gene Name** | S100A1 |
| **Gene Alias** | S100, S100-alpha, S100A |
| **Gene Description** | S100 calcium binding protein A1 |
| **Omim ID** | 176940 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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 may function in stimulation of Ca2+-induced Ca2+ release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of this protein has been implicated in cardiomyopathies. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000035100\|S100 alpha\|S100 calcium-binding protein A1\|S100 protein, alpha polypeptide |

## Publication Reference

- TFE3 and TFEB-rearranged renal cell carcinomas: an immunohistochemical panel to differentiate from common renal cell neoplasms.

  Anna Caliò, Stefano Marletta, Matteo Brunelli, Serena Pedron, Sofia Canete Portillo, Diego Segala, Elena Bariani, Stefano Gobbo, George Netto, Guido Martignoni.

  Virchows Archiv : an International Journal of Pathology 2022 Dec; 481(6):877.

  Application : IHC-P, Human, Human renal cell carcinomas

- Comprehensive analysis of 34 MiT family translocation renal cell carcinomas and review of the literature: investigating prognostic markers and therapy targets.

  Caliò A, Brunelli M, Segala D, Pedron S, Remo A, Ammendola S, Munari E, Pierconti F, Mosca A, Bollito E, Sidoni A, Fisogni S, Sacco C, Canu L, Sentinelli S, Fraccon AP, Fiorentino M, Scott C, Milella M, Porta C, Argani P, Martignoni G.

  Pathology 2020 Feb; 52(3):297.

  Application : IHC, Human, t(6;11), Xp11 cells

- FISH Scoring on Paraffin Sections Versus Single-cell Suspension for Chromophobe Renal Carcinoma and Renal Oncocytoma.

  Brunelli M, Segala D, Delahunt B, Parolini C, Bersani S, Cheng L, Eble JN, Chilosi M, Gobbo S, Martignoni G.

  Anticancer Research 2011 Oct; 31(10):3137.

  Application: IHC-P, Human, Human renal cell carcinomas

## Disease

- Breast cancer
- Breast Neoplasms
- Dermatitis
- DNA Damage
- Genetic Predisposition to Disease