10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# SART2 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant DSE.
Catalog # AT3773a

## Product Information

| | |
|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q9UL01 |
| **Other Accession** | NM_013352 |
| **Reactivity** | Human |
| **Host** | mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG2a Kappa |
| **Clone Names** | 6D4 |
| **Calculated MW** | 109773 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 29940 |
| **Other Names** | Dermatan-sulfate epimerase, DS epimerase, Chondroitin-glucuronate 5-epimerase, Squamous cell carcinoma antigen recognized by T-cells 2, SART-2, DSE, SART2 |
| **Target/Specificity** | DSE (NP_037484, 574 a.a. ~ 673 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Dilution** | WB~~1:500~1000 E~~N/A |
| **Format** | Clear, colorless solution in phosphate buffered saline, pH 7.2 . |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| **Precautions** | SART2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Background

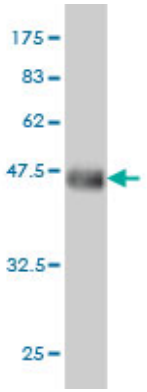
The protein encoded by this gene is a tumor-rejection antigen. This antigen possesses tumor epitopes capable of inducing HLA-A24-restricted and tumor-specific cytotoxic T lymphocytes in cancer patients and may be useful for specific immunotherapy. This gene product is localized to the endoplasmic reticulum. Two transcript variants encoding the same protein have been found for this gene.

## References

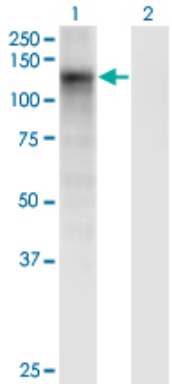
Identification of the active site of DS-epimerase 1 and requirement of N-glycosylation for enzyme function.

Pacheco B, et al. J Biol Chem, 2009 Jan 16. PMID 19004833.Biosynthesis of dermatan sulfate: chondroitin-glucuronate C5-epimerase is identical to SART2. Maccarana M, et al. J Biol Chem, 2006 Apr 28. PMID 16505484.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.

## Images

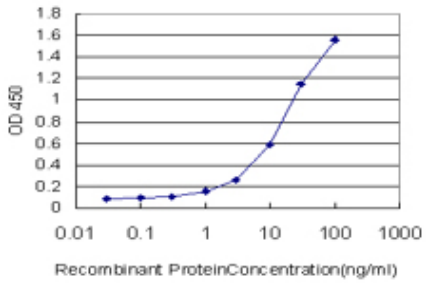



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .




Western Blot analysis of DSE expression in transfected 293T cell line by DSE monoclonal antibody (M03), clone 6D4.

Lane 1: DSE transfected lysate (Predicted MW: 109.8 KDa).
Lane 2: Non-transfected lysate.




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

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