Human SORD antibody

Catalog Number: ATGA0283

PRODUCT INFORMATION

Catalog number
ATGA0283

Clone No.
AT10F4

Product type
Monoclonal Antibody

UnitProt No.
Q00796

NCBI Accession No.
AAH25295

Alternative Names
Sorbitol dehydrogenase, Sorbitol dehydrogenase L iditol 2 dehydrogenase, SDH, SORD, SORD 1, SORD1

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human SORD (1-357aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF

Usage
The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

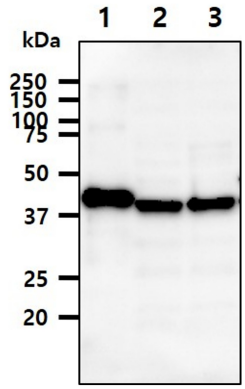
SORD, also known as sorbitol dehydrogenase, is a 357 amino acid protein of the zinc-containing alcohol dehydrogenase family. It is widely expressed with highest expression in kidney, lens of the eye and malignant prostate tissue. SORD enzymatically catalyzes the zinc-dependent interconversion of polyols, such as sorbitol and xylitol, to their respective ketoses. SORD deficiency may be associated with diabetic complications such as cataracts and microvascular problems.

General References

Frenette. G., et al. (2006) J Androl 27: 233-239.
Szabo. Z., et al. (2010) Oncol Rep 23: 1233-1239.
Lanaspa. M.A., et al. (2009) J Biol Chem 284: 19974-19981.

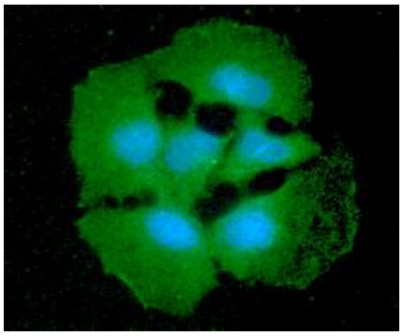
DATA

Western blot analysis (WB)



The recombinant protein (20ng) and cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SORD antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: SORD recombinant protein
Lane 2.: Jurkat cell lysate
Lane 3.: HeLa cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of SORD in Hep3B cells. The cell was stained with ATGA0283 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).