

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

Human SORD antibody

Catalog Number: ATGA0283

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

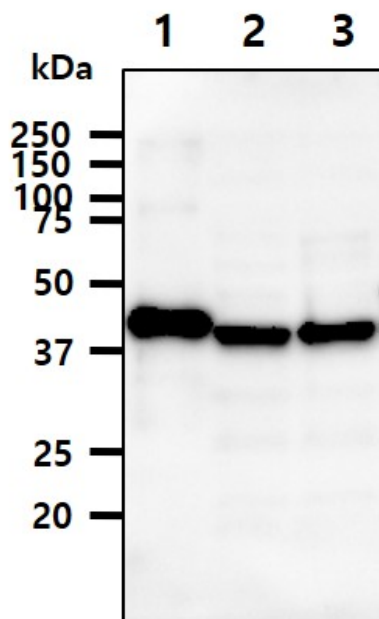
SORD, also known as sorbitol dehydrogenase, is a 357 amino acid protein of the zinc-containing alcohol dehydrogenase family. It is widely expressed with highest expression in kidney, lens of the eye and malignant prostate tissue. SORD enzymatically catalyzes the zinc-dependent interconversion of polyols, 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.
- Lanasa. M.A., et al. (2009) J Biol Chem 284: 19974-19981.

DATA

Western blot analysis (WB)



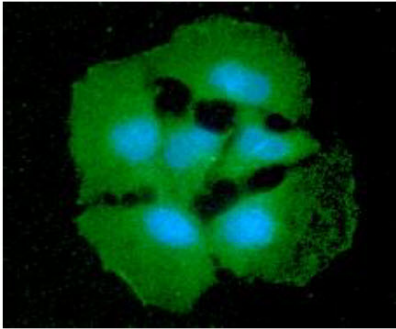
The recombinant protein (20ng) and cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SORD antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1.: SORD recombinant protein
- Lane 2.: Jurkat cell lysate
- Lane 3.: HeLa cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

Human SORD antibody

Catalog Number: ATGA0283



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).