PRODUCT INFORMATION

Catalog number ATGA0126

Clone No. AT7E8

Product type Monoclonal Antibody

UnitProt No. 075828

NCBI Accession No. NP_001227

Alternative Names

Carbonyl reductase 3, CBR3, NADPH-dependent carbonyl reductase, Carbonyl reductase (NADPH) 3, EC 1.1.1.184, hCBR3, Carbonyl reductase (NADPH) 3 EC 1.1.1.184, NADPH dependent carbonyl reductase 3, SDR21C2, Short chain dehydrogenase/reductase family 21C member 2

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 CBR3 (1-277aa) purified from E. coli

Isotype

lgG1 kappa

Purification Note

By protein-G 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

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

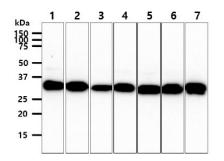
Carbonyl reductase 3 (CBR3) is one of several monomeric NADPH-dependent oxidoreductases. This protein catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. It also contains three exons spanning 11. 2 kilobases and is closely linked to another carbonyl reductase gene - CBR1. Some studies suggest that it mediates 9-cis-retinoic acid-induced cytostatis and is a potential prognostic marker for oral malignancy.

General References

Ohkura-Hada S., et al. (2008). Open Dent J. 2: 78-88. Miura T., et al. (2009). Life Sci. 85(7-8): 303-8.

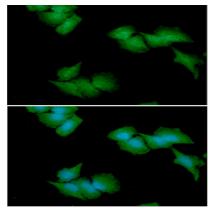
DATA

Western blot analysis (WB)



The lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CBR3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HepG2 cell lysate Lane 2.: HeLa cell lysate Lane 3.: 293T cell lysate Lane 4.: MCF7 cell lysate Lane 5.: A549 cell lysate Lane 6.: SW480 cell lysate Lane 7.: Mouse brain tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of CBR3 in HeLa cells. The cell was stained with ATGA0126 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).