

# Human Carbonyl reductase 3/CBR3 antibody

Catalog Number: ATGA0126

## PRODUCT INFORMATION

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**Catalog number**

ATGA0126

**Clone No.**

AT7E8

**Product type**

Monoclonal Antibody

**UnitProt No.**

O75828

**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

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**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**

IgG1 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.

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## 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 cytostasis and is a potential prognostic marker for oral malignancy.

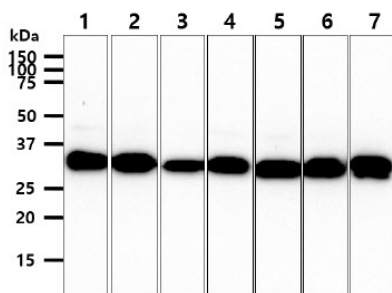
### General References

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

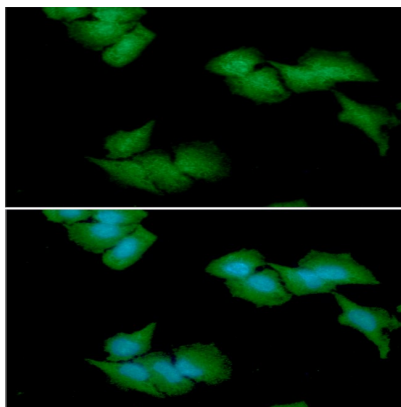
Lane 4.: MCF7 cell lysate

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).