

Monoclonal anti-human CBR1 antibody (clone AT4E12)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0200

Immunogen: Recombinant human CBR1 (1-277aa) purified from *E. coli*

NCBI Accession No.: NP_001748

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-human CBR1 mAb, clone 4E12, is derived from hybridization of mouse SP2/0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CBR1 protein.

Description: Carbonyl reductase 1 (CBR1) is a NADPH-dependent, monomeric, and cytosolic enzyme belonging to a family of short-chain dehydrogenases/reductases. This protein consists of 277 amino acid residues and is widely distributed in human tissues such as liver, epidermis, stomach, small intestine, kidney, neuronal cells, and smooth muscle fiber. CBR1 metabolizes many toxic environmental quinones and pharmacological relevant substrates such as the anticancer drug, doxorubicin. The best substrates of CBR1 are quinones, including ubiquinone-1 and tocophrolquinone (vitamin E).

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

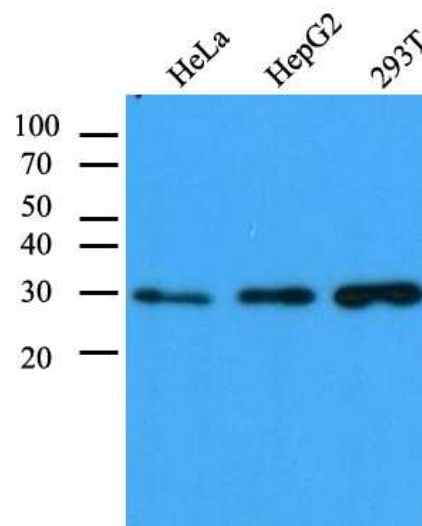


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Product information

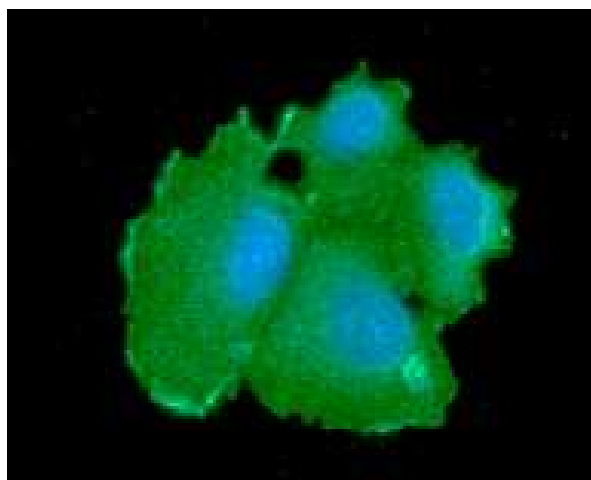
Western blot analysis

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CBR1 antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



ICC/IF analysis

ICC/IF analysis of CBR1 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-CBR1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Lemieux N, *et al.* (1993) *Genomics*. **15**(1):169-72.
Wermuth B, *et al.* (1986). *Biochem. Pharmacol.* **35** (8): 1277-82

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