Product information

Monoclonal anti-human CBR1 antibody (clone AT2D6)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0364

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 AT2D6, is derived from hybridization of mouse F0 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: 1 mg/ml

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

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

Usage: The antibody has been tested by ELISA, Western blot analysis, ICC/IF and Flow cytometry 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, Flow cytometry

Manufactured for:
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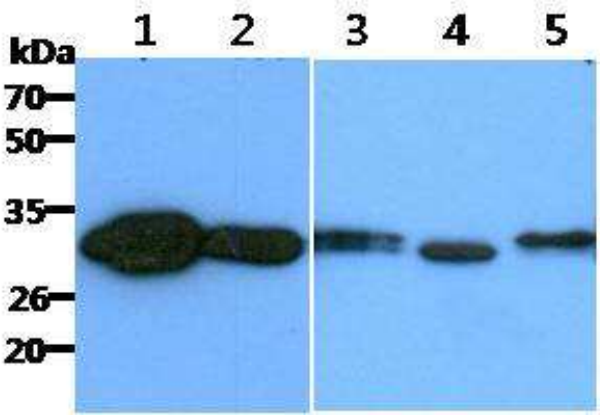
Western blot analysis

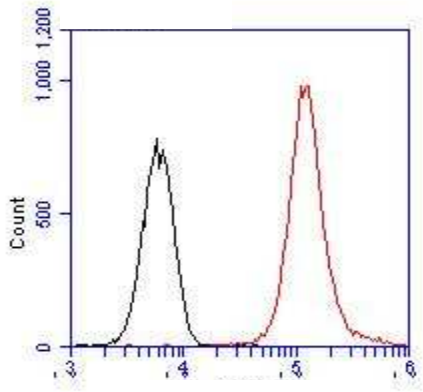
The Recombinant Human CBR1 (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CBR1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Lane 1.: Recombinant Human CBR1
Lane 2. : HeLa cell lysate
Lane 3. : 293T cell lysate
Lane 4. : MCF-7 cell lysate
Lane 5. : HepG2 cell lysate

Flow cytometry

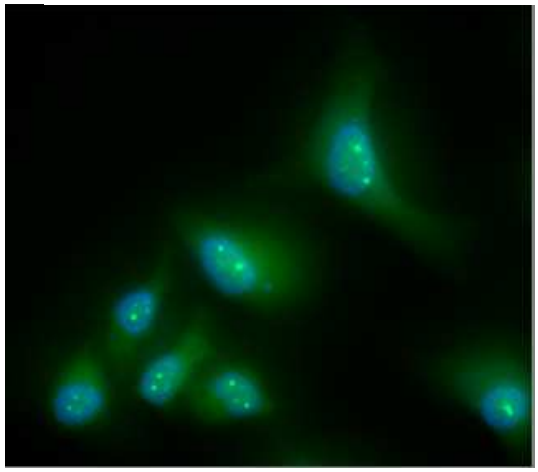
Flow cytometry analysis of CBR1 in HeLa cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-CBR1

ICC/IF analysis

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



General references:

Lemieux N., et al. (1993) *Genomics.* **15(1):** 169-172.

Wermuth B., *et al*. (1986). *Biochem Pharmacol.* **35 (8):** 1277–1282.

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