

Product datasheet for **AM50624PU-S**

Carbonyl reductase 1 Mouse Monoclonal Antibody [Clone ID: AT2D6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT2D6
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	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.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant human CBR1 (1-277aa) purified from E. coli.
Specificity:	Recognizes Human CBR1.
Formulation:	Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol. State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	carbonyl reductase 1
Database Link:	Entrez Gene 873 Human P16152



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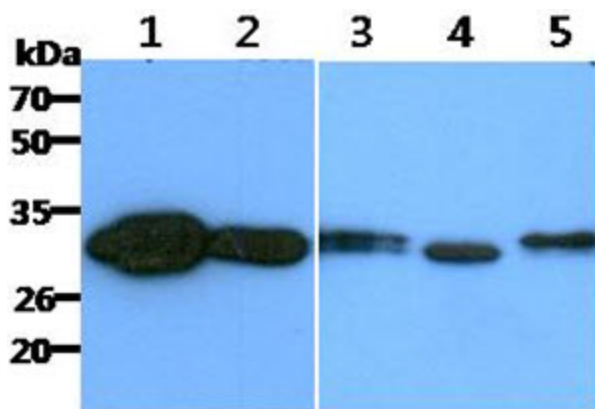
Background: Carbonyl reductase 1 (CBR1) is a DPH-dependent, monomeric, and cytosolic enzyme belonging to a family of short-chain dehydrogenases/reductases. This protein consists of 277 amino acid residues and is widely distributed in human tissues such as liver, epidermis, stomach, small intestine, kidney, neural 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).

Synonyms: CBR1, CBR, CRN

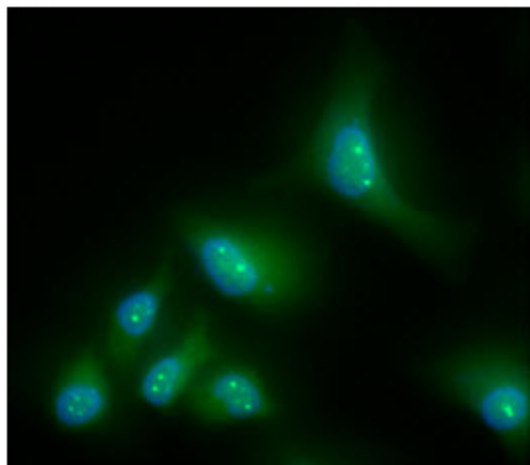
Protein Families: Druggable Genome

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

Product images:



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



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).