

Product Name: KD-Validated CBR1 Mouse Monoclonal Antibody**Catalog #: KVA01251**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 30.4kDa

Antigen Information

Gene Name	CBR1
Alternative Names	CBR1; Carbonyl Reductase 1; SDR21C1; CBR; Short Chain Dehydrogenase/Reductase Family 21C Member 1; 20-Beta-Hydroxysteroid Dehydrogenase; NADPH-Dependent Carbonyl Reductase 1; Alcohol Dehydrogenase [NAD(P)+] CBR1; Prostaglandin-E(2) 9-Reductase; Prostaglandin 9-Ketoreductase; Carbonyl Reductase [NADPH] 1; EC 1.1.1.184; PG-9-KR; Short Chain Dehydrogenase/Reductase Family 21C, Member 1; 15-Hydroxyprostaglandin Dehydrogenase [NADP(+)]; Epididymis Secretory Sperm Binding Protein; 15-Hydroxyprostaglandin Dehydrogenase; Carbonyl Reductase (NADPH) 1; EC 1.1.1.196; EC 1.1.1.197; EC 1.1.1.189; EC 1.1.1.171; HCBR1; CRN
Gene ID	873.0
SwissProt ID	P16152

Immunogen

Recombinant protein of human CBR1

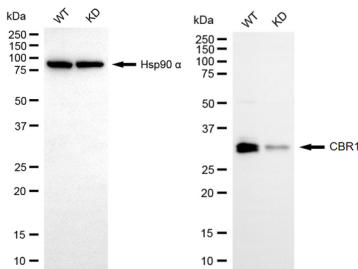
Background

The protein encoded by this gene belongs to the short-chain dehydrogenases/reductases (SDR) family, which function as NADPH-dependent oxidoreductases having wide specificity for carbonyl compounds, such as quinones, prostaglandins, and various xenobiotics. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2013]

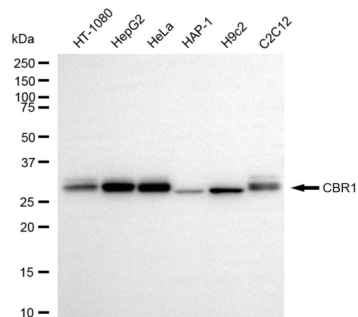
Research Area

Signal Transduction, Cell Biology, Metabolism

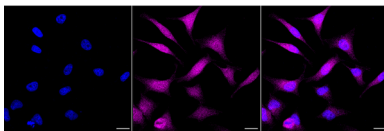
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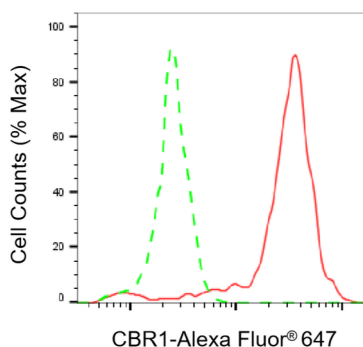
Western blotting analysis using CBR1 antibody (KVA01251). Carbonyl reductase 1 expression in wild-type (WT) and CBR1 knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CBR1 antibody (KVA01251, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using CBR1 antibody (KVA01251). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CBR1 antibody (KVA01251, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with CBR1 antibody (KVA01251, 1:1,000). Nuclei were stained blue with DAPI; CBR1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of CBR1 expression in HepG2 cells using CBR1 antibody (KVA01251, 1:2,000). Green, isotype control; red, CBR1.

