Product Name: Carbonyl Reductase 1 Rabbit Polyclonal Antibody
Catalog #: APRab07921

Summary

Production Name	Carbonyl Reductase 1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CBR1
Alternative Names	CBR1; CBR; CRN; Carbonyl reductase [NADPH] 1; 15-hydroxyprostaglandin dehydrogenase [NADP(+)]; NADPH-dependent carbonyl reductase 1; Prostaglandin 9-ketoreductase; Prostaglandin-E(2) 9-reductase
Gene ID	873.0
SwissProt ID	P16152.The antiserum was produced against synthesized peptide derived from human CBR1. AA range:181-230

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000..
Molecular Weight	32kD

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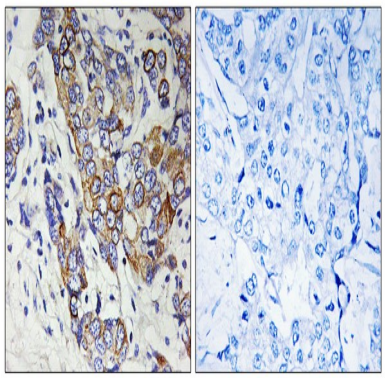
Background

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],catalytic activity:(13E)-(15S)-11-alpha,15-dihydroxy-9-oxoprost-13-enoate + NADP(+) = (13E)-11-alpha-hydroxy-9,15-dioxoprost-13-enoate + NADPH.,catalytic activity:(5Z,13E)-(15S)-9-alpha,11-alpha,15-trihydroxyprosta-5,13-dienoate + NADP(+) = (5Z,13E)-(15S)-11-alpha,15-dihydroxy-9-oxoprosta-5,13-dienoate + NADPH.,catalytic activity:R-CHOH-R' + NADP(+) = R-CO-R' + NADPH.,function:Catalyzes the reduction of a wide variety of carbonyl compounds including the antitumor anthracycline antibiotics. Can convert prostaglandin E2 to prostaglandin F2-alpha.,similarity:Belongs to the short-chain dehydrogenases/reductases (SDR) family.,subunit:Monomer.,

Research Area

Arachidonic acid metabolism;

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using CBR1 Antibody. The picture on the right is blocked with the synthesized peptide.

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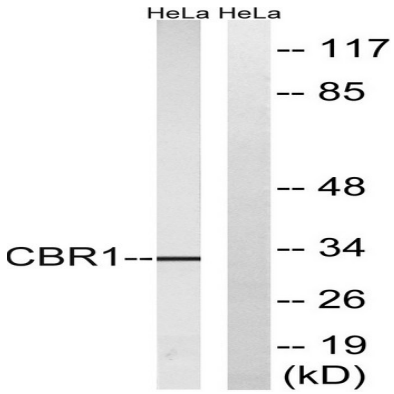
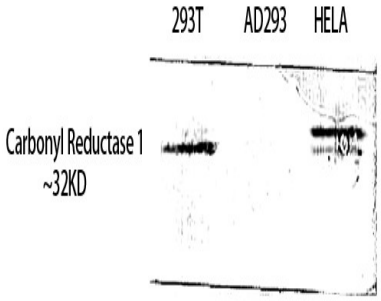


Western blot analysis of lysates from HeLa cells, using CBR1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of 293T HELA using Carbonyl Reductase 1 Polyclonal Antibody. Antibody was diluted at 1:1000

Note

For research use only.