ARG54109
anti-CBR1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes CBR1
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	CBR1
Species	Human
Immunogen	Purified recombinant human CBR1 protein fragments expressed in E.coli
Conjugation	Un-conjugated
Alternate Names	Short chain dehydrogenase/reductase family 21C member 1; 15-hydroxyprostaglandin dehydrogenase [NADP]; SDR21C1; EC 1.1.1.184; NADPH-dependent carbonyl reductase 1; Prostaglandin-E; CBR; 2; hCBR1; EC 1.1.1.189; Prostaglandin 9-ketoreductase; EC 1.1.1.197; Carbonyl reductase [NADPH] 1

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 30 kDa

Properties

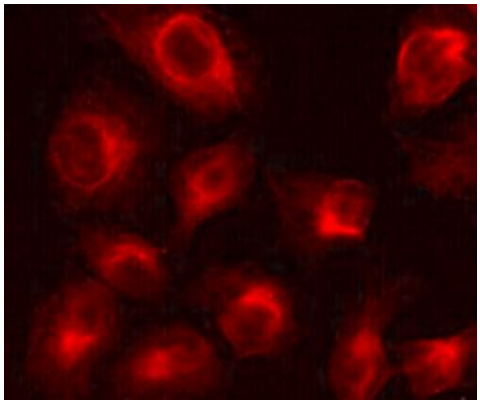
Form	Liquid
Purification	Affinity purified
Buffer	PBS (pH 7.4), 0.2% Sodium azide and 50% Glycerol
Preservative	0.2% Sodium azide
Stabilizer	50% Glycerol
Concentration	1.3 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

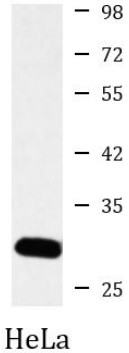
Database links	GeneID: 873 Human Swiss-port # P16152 Human
Gene Symbol	CBR1
Gene Full Name	carbonyl reductase 1
Background	NADPH-dependent reductase with broad substrate specificity.Catalyzes the reduction of a wide variety of carbonyl compounds including quinones,prostaglandins, menadione,plus various xenobiotics.Catalyzes the reduction of the antitumor anthracyclines doxorubicin and daunorubicin to the cardiotoxic compounds doxorubicinol and daunorubicinol. Can convert prostaglandin E2 to prostaglandin F2-alpha.Can bind glutathione,which explains its higher affinity for glutathione-conjugated substrates.Catalyzes the reduction of S-nitrosoglutathione.
Function	NADPH-dependent reductase with broad substrate specificity. Catalyzes the reduction of a wide variety of carbonyl compounds including quinones, prostaglandins, menadione, plus various xenobiotics. Catalyzes the reduction of the antitumor anthracyclines doxorubicin and daunorubicin to the cardiotoxic compounds doxorubicinol and daunorubicinol. Can convert prostaglandin E2 to prostaglandin F2-alpha. Can bind glutathione, which explains its higher affinity for glutathione-conjugated substrates. Catalyzes the reduction of S-nitrosoglutathione. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	30 kDa
Cellular Localization	Cytoplasm

Images



ARG54109 anti-CBR1 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG54109 anti-CBR1 antibody at 1:100 dilution.



ARG54109 anti-CBR1 antibody WB image

Western blot: HeLa cell lysate stained with ARG54109 anti-CBR1 antibody at 1:1000 dilution.