

Product Datasheet

Aldo-keto Reductase 1C4/AKR1C4 Antibody (2C11) - Azide and BSA Free H00001109-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00001109-M01

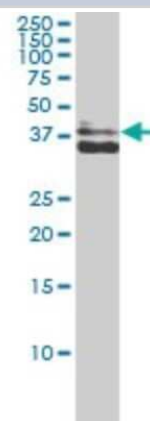
Aldo-keto Reductase 1C4/AKR1C4 Antibody (2C11) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2C11
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	1109
Gene Symbol	AKR1C4
Species	Human
Specificity/Sensitivity	AKR1C4 - aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)
Immunogen	AKR1C4 (AAH20744, 1 a.a. ~ 323 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTCLAIEAGFRHIDSAY LYNNEEQVGLAIRSKIADGSKREDIFYTSKLWCTFFQPQMVQPALESSLKKLQ LDYVDLYLLHFPMAKPGETPLPKDENGKVIFDTVDLSATWEVMEKCKDAGLA KSGVSNFNYRQLEMILNKPGLKYKPV CNQVECHPYLNQSKLLDFCKSKDIVLV AHSALGTQRHKLWVDPNSPVLLEDVLCALAKKHKRTPALIALRYQLQRGVVV LAKSYNEQRIRENIQVFEFQLTSEDMKVLDGLNRNYRYVMDFLMDHPDYPFS DEY
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Sandwich ELISA
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IF, IHC-P and ELISA.

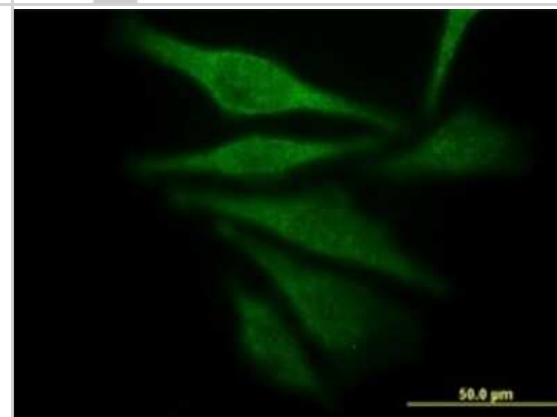


Images

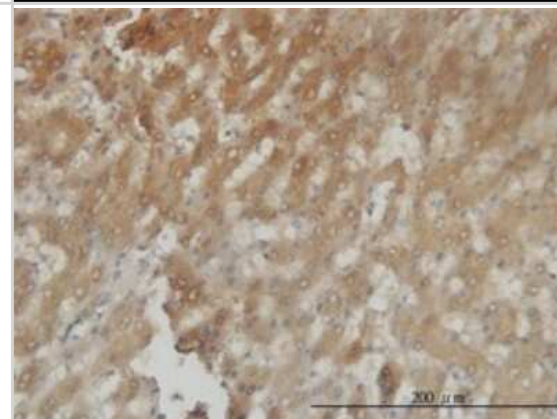
Western Blot: Aldo-keto Reductase 1C4/AKR1C4 Antibody (2C11) [H00001109-M01] - Aldo-keto Reductase 1C4/AKR1C4 monoclonal antibody (M01), clone 2C11 Western Blot analysis of Aldo-keto Reductase 1C4/AKR1C4 expression in MCF-7 [L046V1].



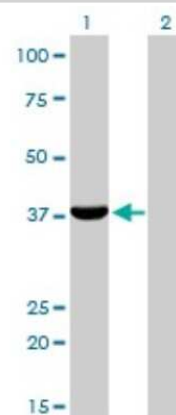
Immunocytochemistry/Immunofluorescence: Aldo-keto Reductase 1C4/AKR1C4 Antibody (2C11) [H00001109-M01] - Analysis of monoclonal antibody to AKR1C4 on HepG2 cell. Antibody concentration 15 ug/ml.



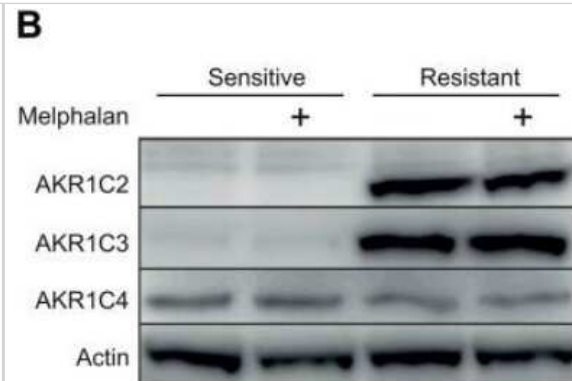
Immunohistochemistry-Paraffin: Aldo-keto Reductase 1C4/AKR1C4 Antibody (2C11) [H00001109-M01] - Analysis of monoclonal antibody to AKR1C4 on formalin-fixed paraffin-embedded human liver tissue. Antibody concentration 3 ug/ml.



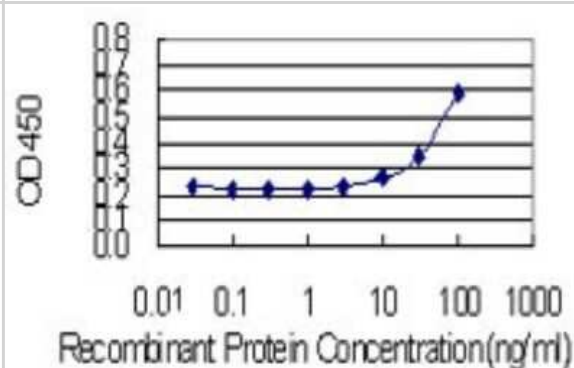
Western Blot: Aldo-keto Reductase 1C4/AKR1C4 Antibody (2C11) [H00001109-M01] - Analysis of AKR1C4 expression in transfected 293T cell line by AKR1C4 monoclonal antibody (M01), clone 2C11. Lane 1: AKR1C4 transfected lysate (37.2 KDa). Lane 2: Non-transfected lysate.



Western Blot: Aldo-keto Reductase 1C4/AKR1C4 Antibody (2C11) [H00001109-M01] - Aldo-keto reductases contribute to melphalan resistance in MM cells. Western analysis confirmed up-regulation of AKR1C2 and C3, but not C4. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0119857>), licensed under a CC-BY license.



Sandwich ELISA: Aldo-keto Reductase 1C4/AKR1C4 Antibody (2C11) [H00001109-M01] - Detection limit for recombinant GST tagged AKR1C4 is 3 ng/ml as a capture antibody.



Publications

Stayrook KR, Rogers PM, Savkur RS et al. Regulation of Human 3 α -Hydroxysteroid Dehydrogenase (AKR1C4) Expression by the Liver X Receptor α . Mol Pharmacol. 2007-11-16 [PMID: 18024509]

Zub KA, Sousa MM, Sarno A et al. Modulation of cell metabolic pathways and oxidative stress signaling contribute to acquired melphalan resistance in multiple myeloma cells. PLoS One 2015-01-01 [PMID: 25769101] (WB, Human)



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Products Related to H00001109-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-14277PEP	Aldo-keto Reductase 1C4/AKR1C4 Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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