# **Product Datasheet**

# Aldo-keto Reductase 1B10/AKR1B10 Antibody NBP1-44998SS

Unit Size: 0.025 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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# NBP1-44998SS

Aldo-keto Reductase 1B10/AKR1B10 Antibody

Product Information	
Unit Size	0.025 ml
Concentration	0.565 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.1mM Tris/HCI, 0.1M NaCI and 50% Glycerol
Target Molecular Weight	36 kDa
Product Description	
Host	Rabbit
Gene ID	57016
Gene Symbol	AKR1B10
Species	Human, Mouse (Negative), Rabbit (Negative), Rat (Negative)
Reactivity Notes	Reacts with human. Does not cross react with mouse, rat or rabbit.
Immunogen	A highly specific 15 amino acid portion of human AKR1B10 (within amino acids 100-150). [UniProt# O60218]
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry- Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:1000, ELISA 1:100-1:2000, Immunohistochemistry 1:5- 1:50, Immunocytochemistry/Immunofluorescence 1:5-1:50, Immunoprecipitation 5 ug, Immunohistochemistry-Paraffin 1:5-1:50, Immunohistochemistry-Frozen 1:5-1:50
Application Notes	This AKR1B10 antibody is useful for ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry frozen sections, Immunohistochemistry paraffin embedded sections, Immunoprecipitation and Western Blot analysis where a band can be seen at ~36 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

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#### Images

Western Blot: Aldo-keto Reductase 1B10/AKR1B10 Antibody [NBP1-44998] - Analysis of AKR1B10 expression in RKO cell lysate (Lns 1 & 3) and HCT-8 cell lysate (Lns 2 & 4). Image courtesy of the laboratory of Dr. Deliang Cao at Southern Illinois University School of Medicine.



Western Blot: Aldo-keto Reductase 1B10/AKR1B10 Antibody [NBP1-44998] - AKR1B10 expression in 1) aldose reductase (AR) protein, 2) AKR1B10 protein, 3) 293T cells expressing AR and 4) HCT-8 cells expressing AKR1B10. Image courtesy of the laboratory of Dr. Deliang Cao at Southern Illinois University School of Medicine.

#### **Publications**

Chen D, Huang R, Ren F et al. FNDC5 and AKR1B10 inhibit the proliferation and metastasis of adrenocortical carcinoma cells by regulating AMPK/mTOR pathway Experimental and therapeutic medicine 2023-03-01 [PMID: 36845952]

Starmann J, Falth M, Spindelbock W et al. Gene Expression Profiling Unravels Cancer-Related Hepatic Molecular Signatures in Steatohepatitis but Not in Steatosis PLoS One 2012-01-01 [PMID: 23071592] (IF/IHC, Human)

Quinn AM, Harvey RG, Penning TM. Oxidation of PAH trans-dihydrodiols by human aldo-keto reductase AKR1B10. Chem Res Toxicol;21(11):2207-15. 2008-11-01 [PMID: 18788756] (WB, Human)

Ma J, Yan R, Zu X, Cheng JM, Rao K, Liao DF, Cao D. Aldo-keto reductase family 1 B10 affects fatty acid synthesis by regulating the stability of acetyl-CoA carboxylase-alpha in breast cancer cells. J Biol Chem;283(6):3418-23. 2008-02-08 [PMID: 18056116] (WB, Human)

Wang C, Yan R, Luo D, Watabe K, Liao DF, Cao D. Aldo-keto reductase family 1 member B10 promotes cell survival by regulating lipid synthesis and eliminating carbonyls. J Biol Chem;284(39):26742-8. 2009-09-25 [PMID: 19643728] (WB, Human)

Yan R, Zu X, Ma J, Liu Z, Adeyanju M, Cao D. Aldo-keto reductase family 1 B10 gene silencing results in growth inhibition of colorectal cancer cells: Implication for cancer intervention. Int J Cancer;121(10):2301-6. 2007-11-15 [PMID: 17597105] (WB, Human)

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#### 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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