

# Product Datasheet

## Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) - Azide and BSA Free H00057016-M01

Unit Size: 0.1 mg

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

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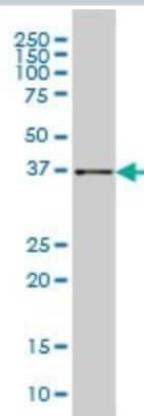


**H00057016-M01****Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) - Azide and BSA Free**

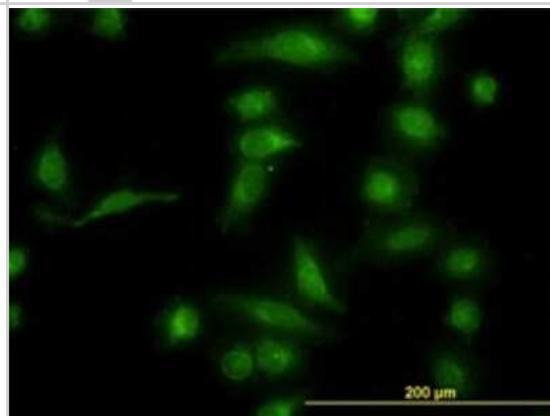
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	1A6
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) - Azide and BSA Free (H00057016-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-Aldo-keto Reductase 1B10/AKR1B10 Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	57016
<b>Gene Symbol</b>	AKR1B10
<b>Species</b>	Human
<b>Reactivity Notes</b>	Human. Other species not tested.
<b>Specificity/Sensitivity</b>	AKR1B10 - aldo-keto reductase family 1, member B10 (aldose reductase)
<b>Immunogen</b>	AKR1B10 (NP_064695, 76 a.a. ~ 143 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. VSKLWPTFFERPLVRKAFEKTLKDLKLSYLDVYLIHWPQGFKSGDDLFPKDDK GNAIGGKATFLDAWE
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Sandwich ELISA
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Sandwich ELISA
<b>Application Notes</b>	Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunofluorescence, immunohistochemistry (paraffin), and ELISA.

## Images

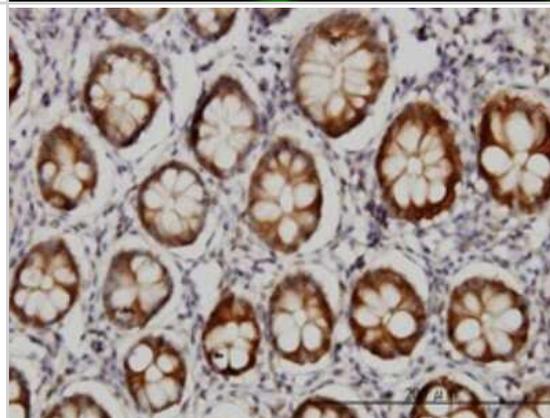
Western Blot: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) [H00057016-M01] - AKR1B10 monoclonal antibody (M01), clone 1A6  
Analysis of AKR1B10 expression in HepG2.



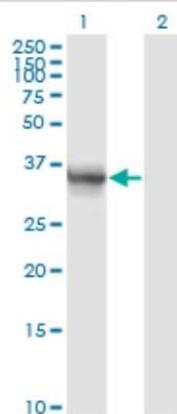
Immunocytochemistry/Immunofluorescence: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) [H00057016-M01] - Analysis of monoclonal antibody to AKR1B10 on HeLa cell. Antibody concentration 10 ug/ml.



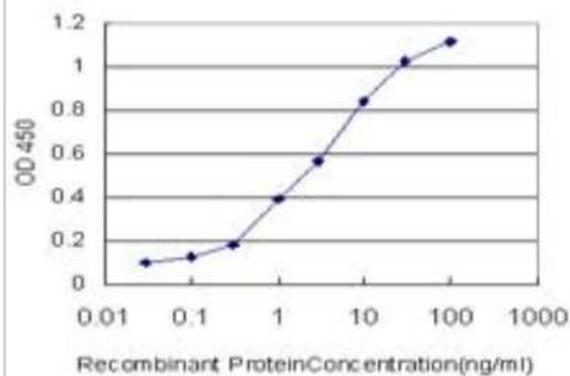
Immunohistochemistry-Paraffin: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) [H00057016-M01] - Analysis of monoclonal antibody to AKR1B10 on formalin-fixed paraffin-embedded human colon. Antibody concentration 3 ug/ml.



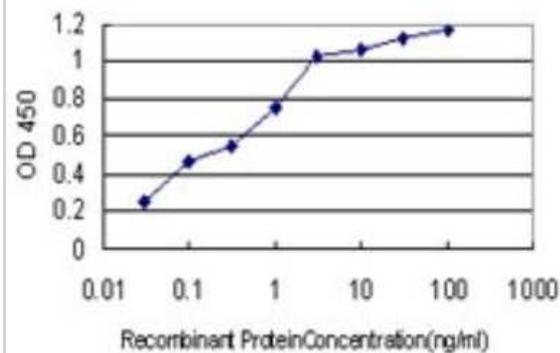
Western Blot: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) [H00057016-M01] - Analysis of AKR1B10 expression in transfected 293T cell line by AKR1B10 monoclonal antibody (M01), clone 1A6. Lane 1: AKR1B10 transfected lysate(36 KDa). Lane 2: Non-transfected lysate.



ELISA: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6)  
[H00057016-M01] - Detection limit for recombinant GST tagged  
AKR1B10 is approximately 0.1ng/ml as a capture antibody.



Sandwich ELISA: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6)  
[H00057016-M01] - Detection limit for recombinant GST tagged  
AKR1B10 is approximately 0.03ng/ml as a capture antibody.



## Publications

Miika M, Terhi A, Sara K et al. A novel uterine leiomyoma subtype exhibits NRF2 activation and mutations in genes associated with neddylation of the Cullin 3-RING E3 ligase. *Oncogenesis*. 2022-09-07 [PMID: 36068196]

Phadke G, Kaushal A, Tolan DR et al. Osmotic Nephrosis and Acute Kidney Injury Associated With SGLT2 Inhibitor Use: A Case Report *Am. J. Kidney Dis.* 2020-05-05 [PMID: 32387022] (IF/IHC, Human)

Ahn KH, Kim SK, Lee JM et al. Proteomic Analysis of Bronchoalveolar Lavage Fluid Obtained from Rats Exposed to Formaldehyde. *Journal of Health Science* 2010-01-01

Kitakaze T, Makiyama A, Samukawa Y et al. A physiological concentration of luteolin induces phase II drug-metabolizing enzymes through the ERK1/2 signaling pathway in HepG2 cells. *Arch Biochem Biophys*. 2019-04-02 [PMID: 30641047]

Park SH, Kim JH, Ko E et al. Resistance to gefitinib and cross-resistance to irreversible EGFR-TKIs mediated by disruption of the Keap1-Nrf2 pathway in human lung cancer cells. *FASEB J* 2018-05-29 [PMID: 29812969]

Connor JP, Esbona K, Matkowskyj KA. et al. AKR1B10 Expression by Immunohistochemistry in Surgical Resections and Fine Needle Aspiration Cytology Material in Patients with Cystic Pancreatic Lesions; Potential for Improved Non-Operative Diagnosis. *Hum Pathol* 2017-10-24 [PMID: 29079172]

Schmitz KJ, Sotiropoulos GC, Baba HA et al. AKR1B10 expression is associated with less aggressive hepatocellular carcinoma: a clinicopathological study of 168 cases. *Liver International*. 2011-03-29 [PMID: 21645211]

Matkowskyj KA, Bai H, Liao J et al. Aldo-Ketoreductase Family 1 B10 (AKR1B10) as A Biomarker to Distinguish Hepatocellular Carcinoma from Benign Liver Lesions. *Human Pathology*(2013). 2014-04-01 [PMID: 24656094]

Bains OS, Grigliatti TA, Reid RE, Riggs KW. Naturally occurring variants of human aldo-keto reductases with reduced in vitro metabolism of daunorubicin and doxorubicin. *J Pharmacol Exp Ther*. 2010-09-13 [PMID: 20837989]

Chung YT, Matkowskyj KA, Li H et al. Overexpression and oncogenic function of aldo-keto reductase family 1B10 (AKR1B10) in pancreatic carcinoma. *Mod Pathol*. 2012-01-06 [PMID: 22222635]

Moriguchi H, Zhang Y, Mihara M, Sato C. A therapeutic method for the direct reprogramming of human liver cancer cells with only chemicals. *Sci Rep*. 2012-02-21 [PMID: 22355790]

Nelson AC, Pillay N, Henderson S et al. An integrated functional genomics approach identifies the regulatory network directed by brachyury (T) in chordoma. *J Pathol*. 2012-07-30 [PMID: 22847733]

More publications at <http://www.novusbio.com/H00057016-M01>



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### **Products Related to H00057016-M01**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP1-89161PEP	Aldo-keto Reductase 1B10/AKR1B10 Recombinant Protein Antigen

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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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