

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

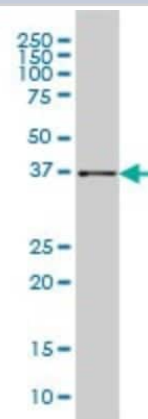
Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) - Azide and BSA Free

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	1A6
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Host	Mouse
Gene ID	57016
Gene Symbol	AKR1B10
Species	Human
Reactivity Notes	Human. Other species not tested.
Specificity/Sensitivity	AKR1B10 - aldo-keto reductase family 1, member B10 (aldose reductase)
Immunogen	AKR1B10 (NP_064695, 76 a.a. ~ 143 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. VSKLWPTFFERPLVRKA FEKTLKDLKLSYLDVYLIHWPQGFKSGDDLFPKDDK GNAIGGKATFLDAWE
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 reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunofluorescence, immunohistochemistry (paraffin), and ELISA.

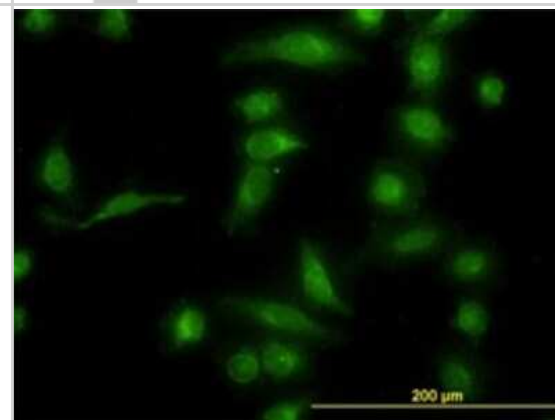


Images

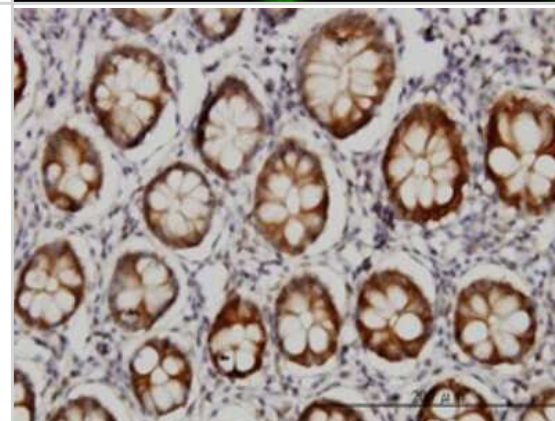
Western Blot: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) [H00057016-M01] - AKR1B10 monoclonal antibody (M01), clone 1A6
Analysis of AKR1B10 expression in HepG2.



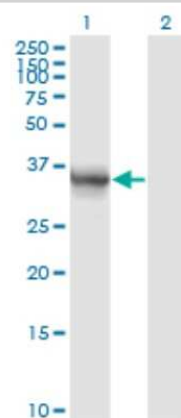
Immunocytochemistry/Immunofluorescence: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) [H00057016-M01] - Analysis of monoclonal antibody to AKR1B10 on HeLa cell. Antibody concentration 10 ug/ml.



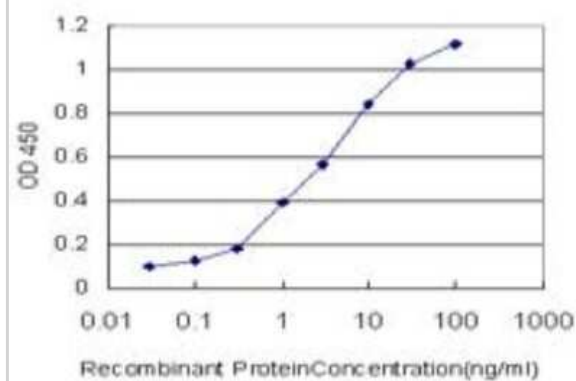
Immunohistochemistry-Paraffin: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) [H00057016-M01] - Analysis of monoclonal antibody to AKR1B10 on formalin-fixed paraffin-embedded human colon. Antibody concentration 3 ug/ml.



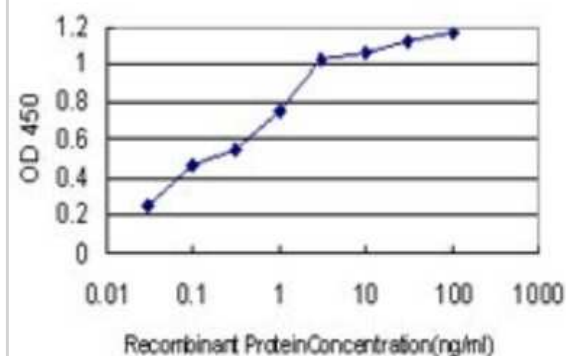
Western Blot: Aldo-keto Reductase 1B10/AKR1B10 Antibody (1A6) [H00057016-M01] - Analysis of AKR1B10 expression in transfected 293T cell line by AKR1B10 monoclonal antibody (M01), clone 1A6. Lane 1: AKR1B10 transfected lysate(36 KDa). Lane 2: Non-transfected lysate.



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]

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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]

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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]

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Products Related to H00057016-M01

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

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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