

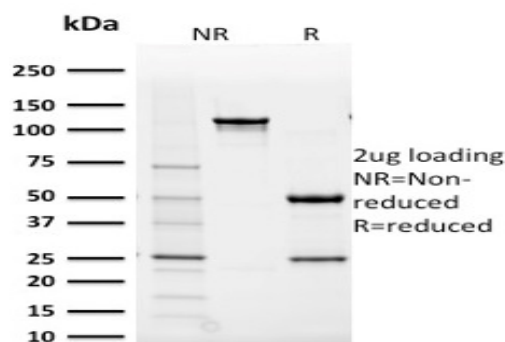
## Aldo-keto Reductase Family 1 Member B1 (Adrenal Marker)

Mouse Monoclonal Antibody [Clone CPTC-AKR1B1-2]

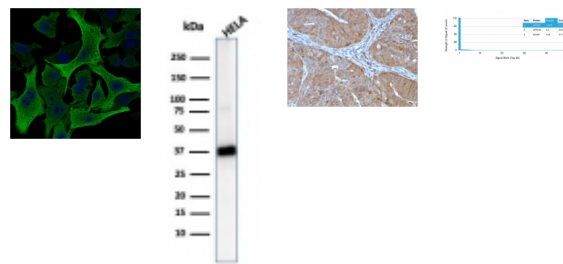
Catalog No	Format	Size	Price (USD)
231-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
231-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
231-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	231
Human SwissProt	P15121
Human Unigene	521212
Human Gene Symbol	AKR1B1
Human Chromosome Location	7q33
Synonyms	Aldehyde Reductase 1; Aldo-keto reductase family 1 member B1 (AKR1B1); Aldose reductase (AR); Li5-2 CTCL tumor antigen; low Km aldose reductase

Immunogen	Recombinant full-length human AKR1B1 protein
Host / Ig Isotype	Mouse / IgG1
Mol. Weight of Antigen	37kDa
Cellular Localization	Cytoplasm
Species Reactivity	Human.
Positive Control	MOLT4, Jurkat or Raji cells. Human kidney or colon carcinoma.



SDS-PAGE Analysis Purified AKR1B1 Mouse Monoclonal Antibody (CPTC-AKR1B1-2). Confirmation of Purity and Integrity of Antibody.



### Specificity & Comments

AKR1B1, also designated as aldose reductase, is a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This protein catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol. It has also been shown to have decreased expression in adrenocortical cancer, and possibly play a role in adrenal tumorigenesis. It has been suggested that AKR1B1 could be investigated as a marker of malignancy for adrenal tumor diagnosis.

### Known Applications & Suggested Dilutions

Immunofluorescence (1-2ug/ml)  
Western Blot (1-2ug/ml)  
Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)  
(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes)  
Optimal dilution for a specific application should be determined.

### Key References

- Bohren, K.M., et al. J. Biol. Chem. 264: 9547-9551.
- Lefranc \*ois-Martinez, Anne-Marie, et al. OUP Academic, Oxford University Press, 1 June 2004.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

### Warranty

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.