

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

Mouse Monoclonal Antibody [Clone CPTC-AKR1B1-2]

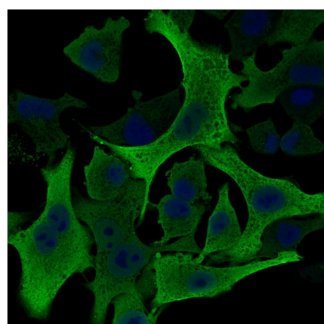
Catalog No	Format	Size
231-MSM2-P0	Purified Ab with BSA and Azide	200ug/ml
231-MSM2-P1	Purified Ab with BSA and Azide	200ug/ml
231-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Immunofluorescence (IF)	1-3ug/ml
Immunohistochemistry (IHC)	1-2ug/ml
Western Blot (WB)	2-4ug/ml

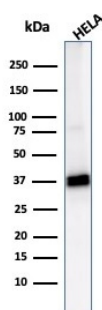
Product Details	
Clone	CPTC-AKR1B1-2
Gene Name	AKR1B1
Immunogen	Recombinantfull-length human AKR1B1protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1
Mol. Weight of Antigen	37kDa
Cellular Localization	Cytoplasm
Species Reactivity	Human
Positive Control	Jurkat or Raji cells. Human kidney or colon carcinoma., MOLT4

**Optimal dilution for a specific application should be determined.*

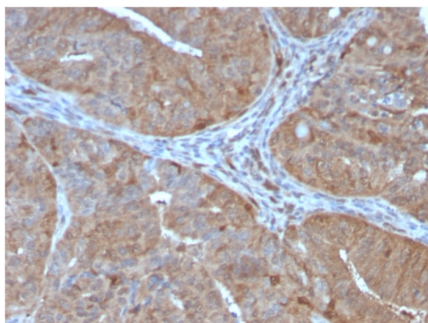
Product Images for Aldo-keto Reductase Family 1 Member B1 (Adrenal Marker) Antibody



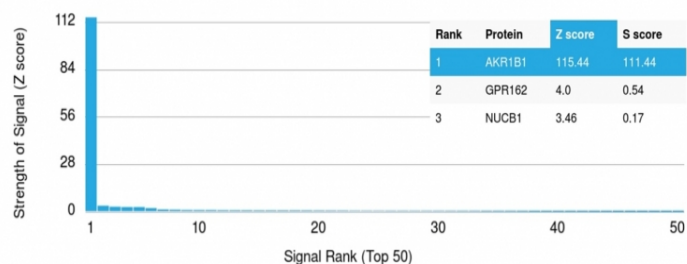
Immunofluorescence Analysis of A549 cells labeling AKR1B1. AKR1B1 Mouse Monoclonal Antibody (CPTC-AKR1B1-2) followed by goat anti-mouse IgG-CF488. Nuclei stained with RedDot (blue).



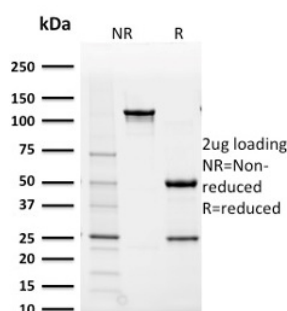
Western Blot Analysis of HeLa cell lysate using AKR1B1 Mouse Monoclonal Antibody (CPTC-AKR1B1-2).



Formalin-fixed, paraffin-embedded human prostate stained with AKR1B1 Mouse Monoclonal Antibody (CPTC-AKR1B1-2).



Analysis of Protein Array containing more than 19,000 full-length human proteins using AKR1B1 Mouse Monoclonal Antibody (CPTC-AKR1B1-2). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



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.

Research Areas

Cardiovascular

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 °C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.

Limitations and Warranty

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

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.

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.