

36-2161: Anti-Aldo-keto Reductase Family 1 Member C2 / DD2 Monoclonal Antibody(Clone: CPTC-AKR1C2-1)

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| Clonality : | Monoclonal |
| Clone Name : | CPTC-AKR1C2-1 |
| Application : | WB,IHC |
| Reactivity : | Human |
| Gene : | AKR1C2 |
| Gene ID : | 1646 |
| Uniprot ID : | P52895 |
| Alternative Name : | AKR1C2, 3-alpha-HSD3, AKR1C-pseudo protein, BABP, Dihydrodiol dehydrogenase 2, DD-2, MCDR2, HAKRD, DD, DDH2, HBAB, Pseudo-chlordecone reductase, SRXY8 |
| Isotype : | Mouse IgG2a, kappa |
| Immunogen Information : | Recombinant human full-length AKR1C2 protein |

Description

DDH2 / AKR1C2 is a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone.

Product Info

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| Amount : | 20 µg / 100 µg |
| Content : | 200 µg/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 condition : | 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. |

Application Note

Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min 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);

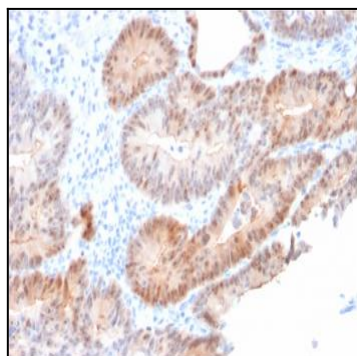


Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with AKR1C2 Mouse Monoclonal Antibody (CPTC-AKR1C2-1).

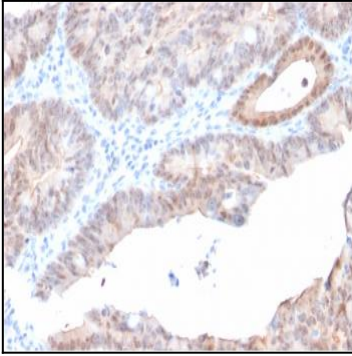


Fig. 2: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with AKR1C2 Mouse Monoclonal Antibody (CPTC-AKR1C2-1).

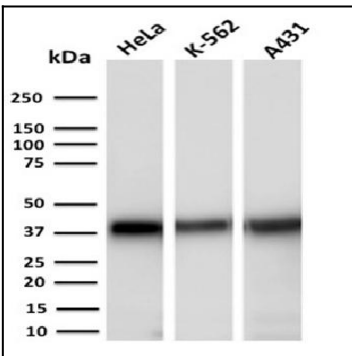


Fig. 3: Western Blot Analysis of Human HeLa, K-562 and A431 cell lysates using AKR1C2 Mouse Monoclonal Antibody (CPTC-AKR1C2-1).

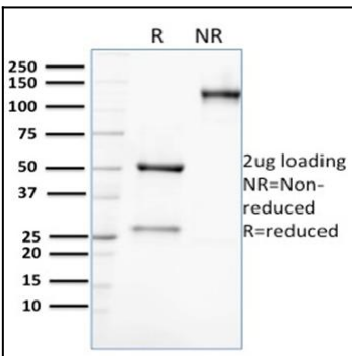


Fig. 4: SDS-PAGE Analysis Purified AKR1C2 Mouse Monoclonal Antibody (CPTC-AKR1C2-1). Confirmation of Purity and Integrity of Antibody.

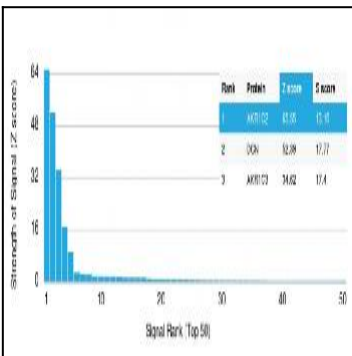


Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using Aldo-keto Reductase Family 1 Member C2 / DD2 Mouse Monoclonal Antibody (CPTC-AKR1C2-1). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAB) (in combination with 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 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.