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**Product Name: AKR1C1 Mouse Monoclonal Antibody****Catalog #: AMM82997**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,FC
<b>Reactivity</b>	Human,Mouse,Rabbit
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:1000,IHC 1:200-1:400,FC 1:200-1:400
<b>Molecular Weight</b>	36.7kDa

**Antigen Information**

<b>Gene Name</b>	AKR1C1
<b>Alternative Names</b>	C9;DD1;DDH;DDH1;H-37;HBAB;MBAB;HAKRC;DD1/DD2;2-ALPHA-HSD;20-ALPHA-HSD
<b>Gene ID</b>	1645.0
<b>SwissProt ID</b>	Q04828
<b>Immunogen</b>	A synthetic peptide of human AKR1C1/AKR1C2

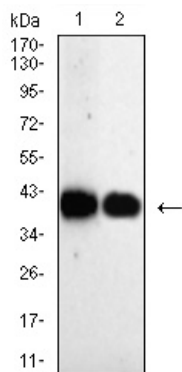
**Background**

This gene encodes 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

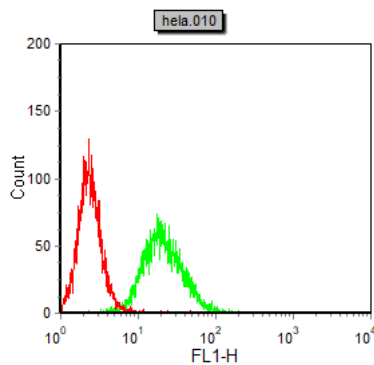
reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. [provided by RefSeq, Jul 2008]

## Research Area

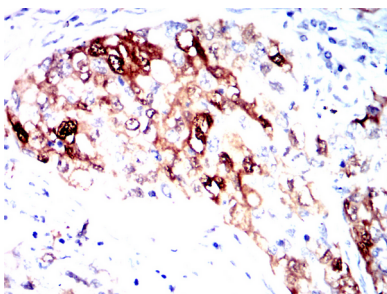
## Image Data



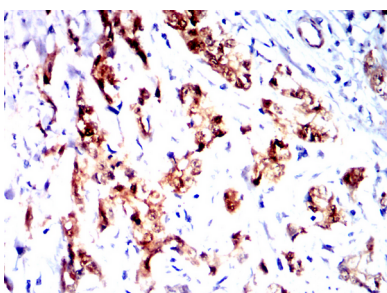
Western blot analysis using AKRAC1 mouse mAb against HepG2(1) mouse liver(2)cell lysate.



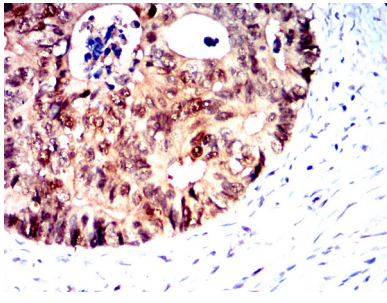
Flow cytometric analysis of HeLa cells using AKR1C1 mouse mAb (green) and negative control (red).



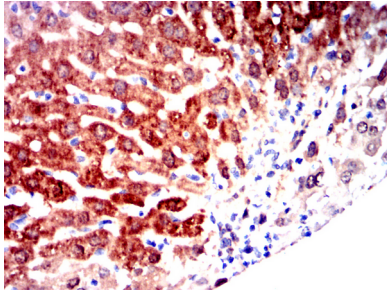
Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using AKR1C1 mouse mAb with DAB stainin.



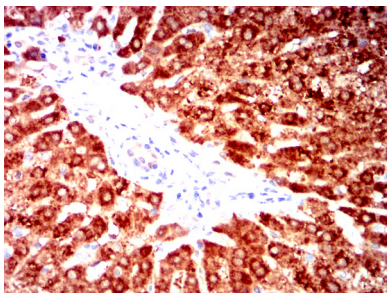
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissues using AKR1C1 mouse mAb with DAB stainin.



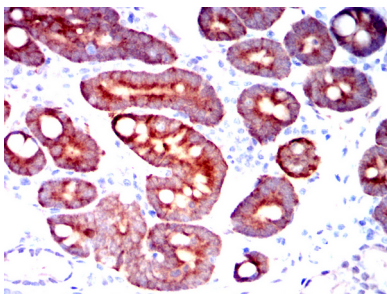
Immunohistochemical analysis of paraffin-embedded human rrectal cancer tissues using AKR1C1 mouse mAb with DAB stainin.



Immunohistochemical analysis of paraffin-embedded mouse liver tissues using AKR1C1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rabbit liver tissues using AKR1C1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rabbit small intestine tissues using AKR1C1 mouse mAb with DAB staining.