

Product datasheet for **TA323179S**

AKR1C1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human liver cancer and breast infiltrative duct tissue, human fetal brain tissue IHC: 50-200 Positive control: Human colon cancer Predicted cell location: Cytoplasm
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 290-304 amino acids of human aldo-keto reductase family 1, member C1
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	37 kDa
Gene Name:	aldo-keto reductase family 1, member C1
Database Link:	NP_001344 Entrez Gene 1645 Human Q04828



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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.?

Synonyms:

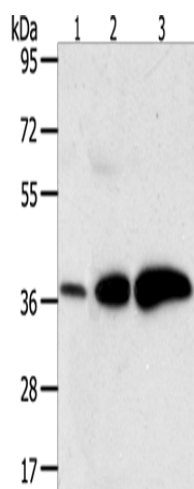
2-ALPHA-HSD; 20-ALPHA-HSD; C9; DD1; DD2; DDH; DDH1; H-37; HAKRC; HBAB; MBAB

Protein Families:

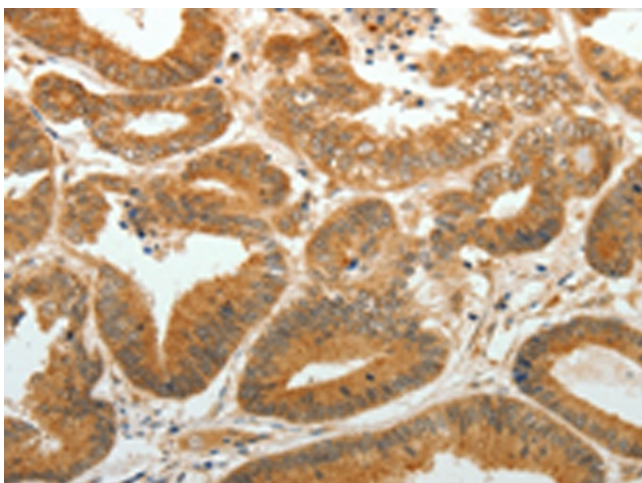
Druggable Genome

Protein Pathways:

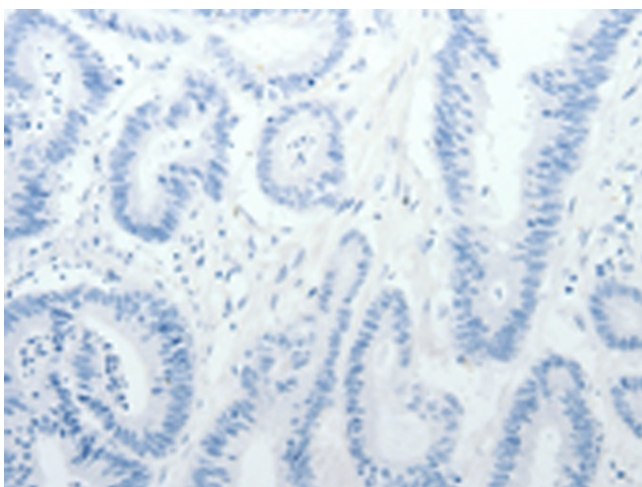
Metabolism of xenobiotics by cytochrome P450

Product images:

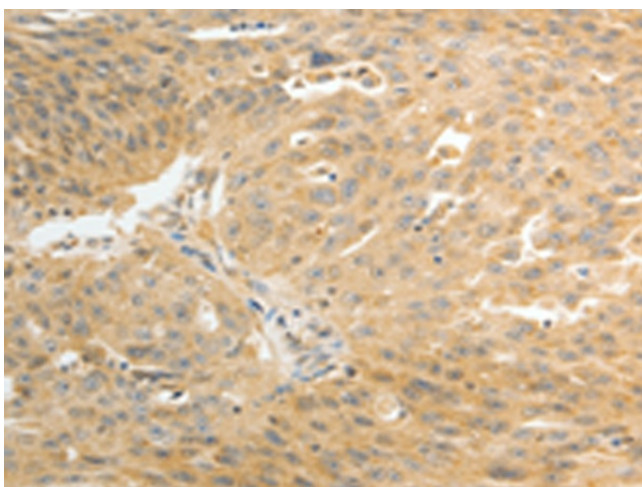
Gel: 10%SDS-PAGE
Lysate: 27 µg
Lane 1-3: Human liver cancer tissue
Human breast infiltrative duct tissue
human fetal brain tissue
Primary antibody: [TA323179] (AKR1C1 Antibody)
at dilution 1/500
Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution
Exposure time: 2 minutes



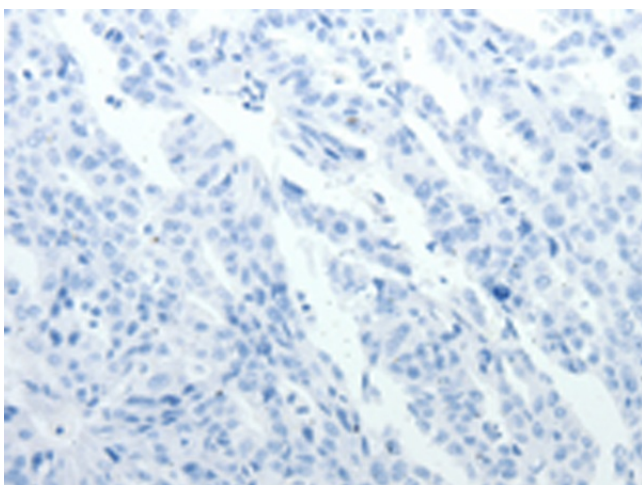
Immunohistochemistry of paraffin-embedded
Human colon cancer tissue using [TA323179]
(AKR1C1 Antibody) at dilution 1/30 (Original
magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using [TA323179] (AKR1C1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA323179] (AKR1C1 Antibody) at dilution 1/30 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA323179] (AKR1C1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: $\times 200$)