

## Rabbit AKR1C1 Polyclonal Antibody | anti-AKR1C1 antibody

AKR1C1 Antibody

|                               |                       |                                                                                                    |
|-------------------------------|-----------------------|----------------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA225275</b> | HOST<br><b>Rabbit</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence</b> |
|-------------------------------|-----------------------|----------------------------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

AKR1C1; Polyclonal Antibody; AKR1C1 Antibody; Affinity Purified Rabbit Polyclonal AKR1C1 Antibody; Polyclonal AKR1C1 antibody; Anti-AKR1C1 antibody; AKRC-1 antibody; MBAB antibody; HAKRC antibody; AKR1C1 antibody; H-37 antibody; dihydrodiol dehydrogenase 1/2 antibody; AKRC-1; AKRC 1; high-affinity hepatic bile acid-binding protein antibody; DDH antibody; 2-alpha-HSD antibody; 20-alpha-hydroxysteroid dehydrogenase antibody; AKRC 1 antibody; 20-alpha-HSD antibody; C9 antibody; MGC8954 antibody; DDH1 antibody; trans-1 2-dihydrobenzene-1 2-diol dehydrogenase antibody; DD1 antibody; anti-AKR1C1 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                              |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                       |
| Clonality                                        | Polyclonal                                                                                                                                   |
| Isotype                                          | IgG                                                                                                                                          |
| Purity/Purification                              | Antigen-Affinity Chromatography                                                                                                              |
| Form/Format                                      | Supplied as a concentrated solution containing 0.1M Tris, 0.1M Glycine, 10% Glycerol (pH 7.0). 0.01% Thimerosal was added as a preservative. |
| Concentration                                    | 1 mg/ml (varies by lot)                                                                                                                      |
| Sequence Length                                  | 323                                                                                                                                          |
| Applicable Applications for anti-AKR1C1 antibody | WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence)                                            |
| Immunogen                                        | AKR1C1 antibody was raised in rabbit using a recombinant fragment corresponding to a region within amino acids 22 and 248 of AKR1C1          |
| Cross-Reactivity                                 | Human                                                                                                                                        |
| Preparation and Storage                          | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.      |

### IMAGES



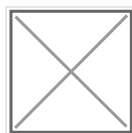
#### WB (Western Blot)

Western blot analysis of 30 ug whole cell lysate (A:Raji) using a 10% SDS PAGE gel and AKR1C1 antibody at a dilution of 1:1000



#### IHC (Immunohistochemistry)

Immunohistochemical staining of paraffin-embedded MDA-MB-468 xenograft using AKR1C1 antibody at a dilution of 1:500



#### IF (Immunofluorescence)

Immunofluorescence analysis of methanol-fixed A431, using AKR1C1 antibody at 1:200 dilution.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-AKR1C1 antibody | 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. |
| Product Categories/Family for anti-AKR1C1 antibody   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| NCBI GI #                        | 5453543                                                                         |
| NCBI GeneID                      | 1645                                                                            |
| NCBI GenBank Nucleotide #        | NP_001344.2                                                                     |
| UniProt Accession #              | Q04828                                                                          |
| Molecular Weight                 | 37 kDa                                                                          |
| NCBI Official Full Name          | aldo-keto reductase family 1 member C1                                          |
| NCBI Official Synonym Full Names | aldo-keto reductase family 1 member C1                                          |
| NCBI Official Symbol             | AKR1C1                                                                          |
| NCBI Official Synonym Symbols    | C9; DD1; DDH; DDH1; H-37; HBAB; MBAB; HAKRC; DD1/DD2; 2-ALPHA-HSD; 20-ALPHA-HSD |
| NCBI Protein Information         | aldo-keto reductase family 1 member C1                                          |
| UniProt Protein Name             | Aldo-keto reductase family 1 member C1                                          |
| UniProt Gene Name                | AKR1C1                                                                          |
| UniProt Synonym Gene Names       | DDH; DDH1; 20-alpha-HSD; DD1/DD2; HBAB                                          |
| UniProt Entry Name               | AK1C1_HUMAN                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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