

## Product datasheet for **TA357873**

### AKR1C3 Rabbit Polyclonal Antibody

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | IHC, WB   |
| Reactivity:             | Human   |
| Host:                   | Rabbit  |
| Clonality:              | Polyclonal  |
| Specificity:            | <b>Expected reactivity:</b> Cow, Guinea Pig, Human, Mouse, Pig, Rabbit, Rat<br><b>Homology:</b> Cow: 85%; Guinea Pig: 85%; Human: 100%; Mouse: 77%; Pig: 92%; Rabbit: 86%; Rat: 85%     |
| Formulation:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.<br><i>Note that this product is shipped as lyophilized powder to China customers.</i> |
| Concentration:          | lot specific  |
| Purification:           | Affinity Purified   |
| Conjugation:            | Unconjugated  |
| Storage:                | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.   |
| Stability:              | Shelf life: one year from despatch.   |
| Predicted Protein Size: | 36kDa   |
| Gene Name:              | aldo-keto reductase family 1, member C3   |
| Database Link:          | <a href="#">NP_003730</a><br><a href="#">Entrez Gene 8644 Human P42330</a>  |



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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 reduction of prostaglandin (PG) D<sub>2</sub>, PGH<sub>2</sub> and phenanthrenequinone (PQ), and the oxidation of 9 $\alpha$ ,11 $\beta$ -PGF<sub>2</sub> to PGD<sub>2</sub>. It may play an important role in the pathogenesis of allergic diseases such as asthma, and may also have a role in controlling cell growth and/or differentiation. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14.

**Synonyms:**

DD-3; DD3; DDH1; DDX; HA1753; HAKRB; HAKRe; hluPGFS; HSD17B5; KIAA0119; PGFS

**Protein Families:**

Druggable Genome

**Protein Pathways:**

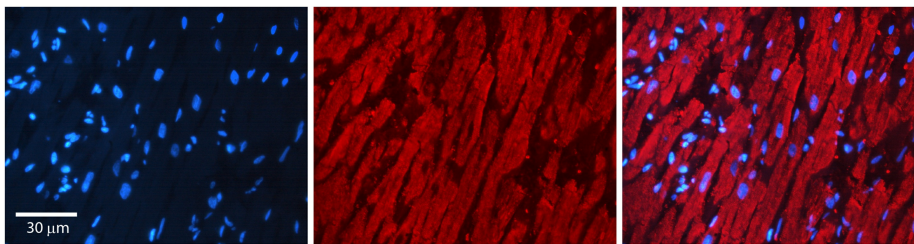
Arachidonic acid metabolism, Metabolism of xenobiotics by cytochrome P450

**Product images:**


WB Suggested Anti-AKR1C3 Antibody

Titration: 1.0 ug/ml

Positive Control: COLO205 Whole Cell AKR1C3 is supported by BioGPS gene expression data to be expressed in COLO205



Rabbit Anti-AKR1C3 Antibody

Catalog Number: TA357873

Formalin Fixed Paraffin Embedded Tissue:

Human heart Tissue

Observed Staining: Cytoplasmic

Primary Antibody Concentration: 1:100

Other Working Concentrations: N/A

Secondary Antibody: Donkey anti-Rabbit-Cy3

Secondary Antibody Concentration: 1:200

Magnification: 20X

Exposure Time: 0.5–2.0 sec