

## Product datasheet for **AP50133PU-N**

### **AKR1C3 (N-term) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	FC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western blotting:</b> 1/1000. <b>Flow Cytometry:</b> 1/10 - 1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 17-44 amino acids from the N-terminal region of human AKR1C3
Specificity:	This antibody reacts to AKR1C3.
Formulation:	PBS containing 0.09% (W/V) sodium azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	aldo-keto reductase family 1, member C3
Database Link:	<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.

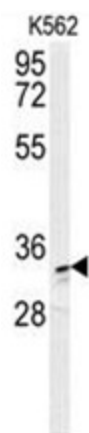
**Synonyms:** HSD17B5, KIAA0119, PGFS, Dihydrodiol dehydrogenase 3, 3- $\alpha$ -HSD type II, 17- $\beta$ -hydroxysteroid dehydrogenase type 5

**Note:** **Molecular Weight:** 36853 Da

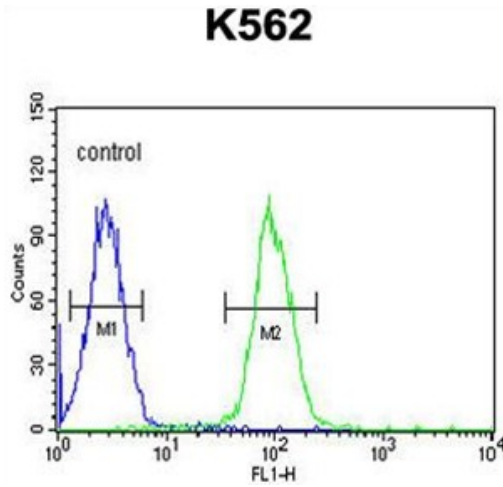
**Protein Families:** Druggable Genome

**Protein Pathways:** Arachidonic acid metabolism, Metabolism of xenobiotics by cytochrome P450

### Product images:



AKR1C3 Antibody (N-term) western blot analysis in K562 cell line lysates (35 $\mu$ g/lane). This demonstrates the AKR1C3 antibody detected the AKR1C3 protein (arrow).



AKR1C3 Antibody (N-term) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.