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## Datasheet for ABIN7127330 Recombinant anti-AKR1C3 antibody

2 Images



### Overview

Quantity:	100 µL
Target:	AKR1C3
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This AKR1C3 antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Immunofluorescence (IF)

## Product Details

Immunogen:	A synthesized peptide derived from human AKR1C3
Clone:	4D12
lsotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

## Target Details

Target:	AKR1C3
Alternative Name:	AKR1C3 (AKR1C3 Products)
Background:	Background: Catalyzes the conversion of aldehydes and ketones to alcohols. Catalyzes the

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	reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ) and the oxidation of
	9-alpha,11-beta-PGF2 to PGD2. Functions as a bi-directional 3-alpha-, 17-beta- and 20-alpha
	HSD. Can interconvert active androgens, estrogens and progestins with their cognate inactive
	metabolites. Preferentially transforms androstenedione (4-dione) to testosterone.
	Aliases: Aldo-keto reductase family 1 member C3 (EC 1) (17-beta-hydroxysteroid
	dehydrogenase type 5) (17-beta-HSD 5) (3-alpha-HSD type II, brain) (3-alpha-hydroxysteroid
	dehydrogenase type 2) (3-alpha-HSD type 2) (EC 1.1.1.357) (Chlordecone reductase homolog
	HAKRb) (Dihydrodiol dehydrogenase 3) (DD-3) (DD3) (Dihydrodiol dehydrogenase type I)
	(HA1753) (Indanol dehydrogenase) (EC 1.1.1.112) (Prostaglandin F synthase) (PGFS) (EC
	1.1.1.188) (Testosterone 17-beta-dehydrogenase 5) (EC 1.1.1.239) (EC 1.1.1.64) (Trans-1,2-
	dihydrobenzene-1,2-diol dehydrogenase) (EC 1.3.1.20), AKR1C3, DDH1 HSD17B5 KIAA0119
	PGFS
UniProt:	P42330
Pathways:	Retinoic Acid Receptor Signaling Pathway, Steroid Hormone Biosynthesis, Regulation of
	Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, C21-Steroid
	Hormone Metabolic Process, Protein targeting to Nucleus
Application Details	

Application Notes:	Recommended dilution: IF:1:20-1:200, FC:1:20-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
	glycerol.

	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

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#### Immunofluorescence

**Image 1.** Immunofluorescence staining of Hela Cells with ABIN7127330 at 1:50, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeated by 0.2 % TritonX-100, and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

#### **Flow Cytometry**

**Image 2.** Overlay histogram showing A549 cells stained with ABIN7127330 (red line) at 1:50. The cells were fixed with 70 % Ethylalcohol (18h) and then incubated in 10 % normal goat serum to block non-specific protein-protein interactions followedby the antibody (1  $\mu$ g/1\*106cells) for 1 h at 4 °C.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30 min at 4 °C. Control antibody (green line) was Rabbit IgG (1  $\mu$ g/1\*106cells) used under the same conditions. Acquisition of >10,000 events was performed.

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