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Datasheet for ABIN7101584  
**anti-AKR1C3 antibody**

2 Images

Overview

Quantity:	20 µL
Target:	AKR1C3
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This AKR1C3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	A synthesized peptide derived from human AKR1C3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	AKR1C3
Alternative Name:	AKR1C3 ( <a href="#">AKR1C3 Products</a> )
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

## Target Details

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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) D2, PGH2 and phenanthrenequinone (PQ), and the oxidation of 9alpha,11beta-PGF2 to PGD2. 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. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011],DD3, DDX, HA1753, HAKRB, HAKRe, HSD17B5, PGFS, hluPGFS,Cancer,Cell Biology & Developmental Biology,Endocrine & Metabolism,Growth factors,Neuroscience,Signal Transduction,AKR1C3

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Molecular Weight: 37 kDa

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Gene ID: 8644

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UniProt: [P42330](#)

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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

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Application Notes: WB,1:500 - 1:2000, IF,1:50 - 1:200

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Restrictions: For Research Use only

## Handling

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Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

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Preservative: Sodium azide

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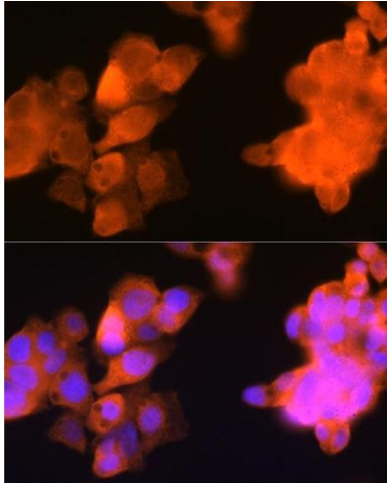
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

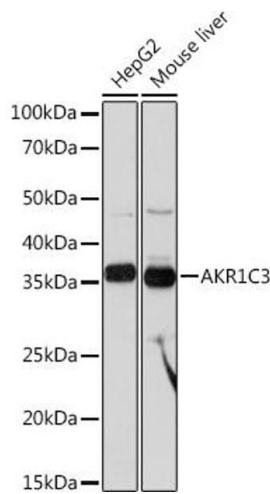
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Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



### Immunofluorescence

**Image 1.** Immunofluorescence analysis of Hep G2 cells using C3 Rabbit mAb (ABIN1680027, ABIN3018233, ABIN3018234 and ABIN7101584) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using C3 Rabbit mAb (ABIN1680027, ABIN3018233, ABIN3018234 and ABIN7101584) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.