

Datasheet for ABIN7111468 **anti-AKR1C3 antibody**



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Overview

Quantity:	100 µg
Target:	AKR1C3
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKR1C3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	AKR1C3
Alternative Name:	AKR1C3 (AKR1C3 Products)
Background:	Synonyms:17 beta HSD 5, 3 alpha HSD type 2, 3 alpha HSD type II, brain, AKR1C3, DD 3, DD3, DDX, Dihydrodiol dehydrogenase 3, HA1753, HAKRB, HAKRe, hluPGFS, HSD17B5, Indanol dehydrogenase, KIAA0119, PGFS, Prostaglandin F synthase Background:This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known

Target Details

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) D₂, PGH₂ and phenanthrenequinone (PQ), and the oxidation of 9 α , 11 β -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.

Molecular Weight: 37 kDa

Gene ID: 8644

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: WB: 1:500 - 1:2000, IHC: 1:50 - 1:200, IF: 1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3 ,

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

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Expiry Date: 12 months