Datasheet for ABIN950322

anti-AKR1C3 antibody (N-Term)

2 Images

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Overview

Quantity:	0.4 mL
Target:	AKR1C3
Binding Specificity:	AA 17-44, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKR1C3 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 17-44 amino acids from the N-terminal region of human AKR1C3
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Purification:	Affinity chromatography on Protein A

Target Details

Target:	AKR1C3
Abstract:	AKR1C3 Products
Background:	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more

Target Details

	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) 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.Synonyms: 17-beta-hydroxysteroid dehydrogenase type 5, 2-dihydrobenzene-1, 2-diol dehydrogenase, 3-alpha-HSD type II, 3-alpha-HSD type II, 3-alpha-hydroxysteroid dehydrogenase type 2, Aldo-keto reductase family 1 member C3, Chlordecone reductase homolog HAKRb, Dihydrodiol dehydrogenase 3, Dihydrodiol dehydrogenase type I, HA1753, HSD17B5, KIAA0119, PGFS, Prostaglandin F synthase, Testosterone 17-beta-dehydrogenase 5, Trans-1, brain
Gene ID:	8644
NCBI Accession:	NP_003730
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:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

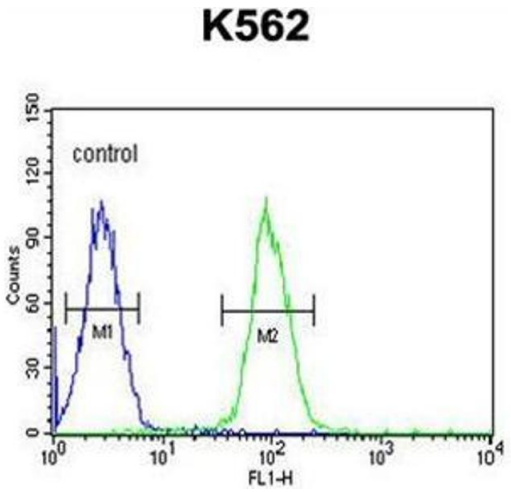
Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) sodium azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.

Handling

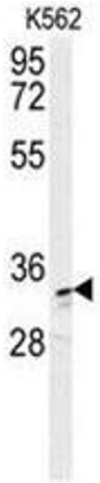
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images



Flow Cytometry

Image 1. 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.



Western Blotting

Image 2. AKR1C3 Antibody (N-term) western blot analysis in K562 cell line lysates (35µg/lane).This demonstrates the AKR1C3 antibody detected the AKR1C3 protein (arrow).