

Basic Information

Product Name	Anti-AKR1C3 Antibody
Gene Name	AKR1C3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human AKR1C3.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	37 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed):1:50-200

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Aldo-keto reductase family 1 member C3 (AKR1C3), also known as 17 β -hydroxysteroid dehydrogenase type 5 (17 β -HSD5, HSD17B5) is a key steroidogenic enzyme that in humans is encoded by the AKR1C3 gene. 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) 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.

Selected Validation Data

Product datasheet

Anti-AKR1C3 Antibody

Catalog Number: **A01820-1**



antibody and ELISA experts

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