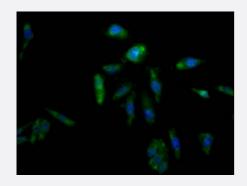


RecomAb™

AKR1C3 recombinant monoclonal antibody, clone 4D12

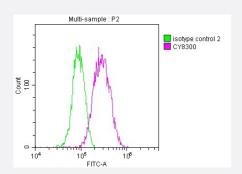
Catalog # RAB07521 Size 100 uL

Applications



Immunofluorescence

Immunofluorescent staining of Hela Cells with AKR1C3 recombinant monoclonal antibody, clone 4D12 (Cat # RAB07521). 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

Flow cytometry analysis of A549 cells stained with AKR1C3 recombinant monoclonal antibody, clone 4D12 (Cat # RAB07521). The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/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 30min at 4°C. Control antibody (green line) was Rabbit IgG (1ug/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.

Specification	
Product Description	Rabbit recombinant monoclonal antibody raised against human AKR1C3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human AKR1C3.
Reactivity	Human
Form	Liquid



Product Information

Affinity chromatography purification
lgG
ELISA
Flow Cytometry(1:20-1:200)
Immunofluorescence (1:20-1:200)
The optimal working dilution should be determined by the end user.
In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Store at -20°C or -80°C.
Aliquot to avoid repeated freezing and thawing.
This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul
d be handled by trained staff only.

Applications

Immunofluorescence

Immunofluorescent staining of Hela Cells with AKR1C3 recombinant monoclonal antibody, clone 4D12 (Cat # RAB07521). 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).

- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

Gene Info — AKR1C3

Flow cytometry analysis of A549 cells stained with AKR1C3 recombinant monoclonal antibody, clone 4D12 (Cat # RAB07521). The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10⁶cells) for 1 h at 4°C. The secondary antibody used was FITC-conjugated goat anti-rabbit lgG (H+L) at 1/200 dilution for 30min at 4°C. Control antibody (green line) was Rabbit lgG (1ug/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

Entrez GeneID	<u>8644</u>
Protein Accession#	P42330
Gene Name	AKR1C3
Gene Alias	DD3, DDX, HA1753, HAKRB, HAKRe, HSD17B5, KIAA0119, hluPGFS
Gene Description	aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)



Product Information

Omim ID	<u>603966</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	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 keto nes 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 prost aglandin (PG) D2, PGH2 and phenanthrenequinone (PQ), and the oxidation of 9alpha,11beta-PG F2 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. [provided by RefSeq
Other Designations	OTTHUMP0000018996 aldo-keto reductase family 1, member C3 chlordecone reductase dihydr odiol dehydrogenase 3 dihydrodiol dehydrogenase X hydroxysteroid (17-beta) dehydrogenase 5 prostaglandin F synthase trans-1,2-dihydrobenzene-1,2-diol dehydrogenase type

Pathway

- Arachidonic acid metabolism
- Metabolism of xenobiotics by cytochrome P450

Disease

- Adenocarcinoma
- Breast cancer
- Breast Neoplasms
- Ductus Arteriosus
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Hyperandrogenism
- Infant
- Leukemia
- Lung Neoplasms
- Lymphoma



- Neoplasms
- Obesity
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Polycystic Ovary Syndrome
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Puberty
- Pulmonary Disease
- Thrombophilia
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Werner syndrome