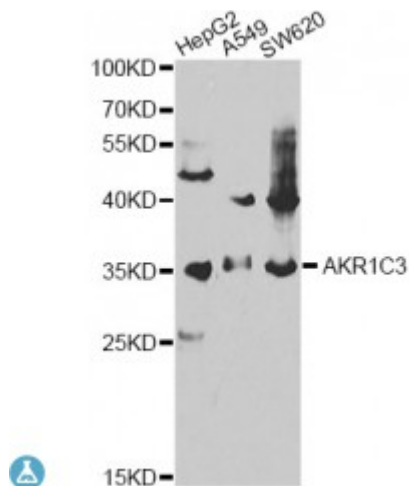


Anti-AKR1C3 Antibody



Description

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 9α,11β-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.

Model	STJ115529
Host	Rabbit
Reactivity	Human, Rat
Applications	IF, IHC, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-323 of human AKR1C3 (NP_003730.4).
Gene ID	8644
Gene Symbol	AKR1C3
Dilution range	WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Tissue Specificity	Expressed in many tissues including adrenal gland, brain, kidney, liver, lung, mammary gland, placenta, small intestine, colon, spleen, prostate and testis, The dominant HSD in prostate and mammary gland, In the prostate, higher levels in epithelial cells than in stromal cells, In the brain, expressed in medulla, spinal cord, frontotemporal lobes, thalamus, subthalamic nuclei and amygdala, Weaker expression in the hippocampus, substantia nigra and caudate
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Aldo-keto reductase family 1 member C3
Molecular Weight	36.853 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:386OMIM:603966Reactome:R-HSA-193368
Alternative Names	Aldo-keto reductase family 1 member C3
Function	Catalyzes the conversion of aldehydes and ketones to alcohols, Catalyzes the reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ) and the oxidation of 9-alpha,11-beta-PGF2 to PGD2, Functions as a bi-directional 3-alpha-, 17-beta- and 20-alpha HSD, Can interconvert active androgens, estrogens and progestins with their cognate inactive metabolites, Preferentially transforms androstenedione (4-dione) to testosterone
Cellular Localization	Cytoplasm