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Anti-AKR1B10 Antibody (aa1-316)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18036

Product Information

Application	WB, IHC-P, ICC
Primary Accession	O60218
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36020
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	57016
Alias Symbol	AKR1B10
Other Names	AKR1B10, AKR1B11, Aldose reductase-like peptide, ALDRLn, AKR1B12, Aldose reductase-like, Aldose reductase-like 1, ARP, HARP, HSI, Small intestine reductase, ARL-1, SI reductase
Target/Specificity	Human AKR1B10
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-AKR1B10 Antibody (aa1-316) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AKR1B10
Synonyms	AKR1B11
Function	Catalyzes the NADPH-dependent reduction of a wide variety of carbonyl-containing compounds to their corresponding alcohols (PubMed:12732097, PubMed:18087047, PubMed:19013440, PubMed:19563777, PubMed:9565553). Displays strong enzymatic activity toward all-trans- retinal, 9-cis-retinal, and 13-cis-retinal (PubMed:12732097, PubMed:18087047). Plays a critical role in detoxifying dietary and lipid-derived unsaturated carbonyls, such as crotonaldehyde, 4-hydroxynonenal, trans-2-hexenal, trans-2,4-hexadienal and their glutathione-conjugates carbonyls (GS-carbonyls) (PubMed:19013440, PubMed:19563777). Displays no reductase activity towards glucose (PubMed:12732097).

Cellular Location	Lysosome. Secreted. Note=Secreted through a lysosome- mediated non-classical pathway
Tissue Location	Found in many tissues. Highly expressed in small intestine, colon and adrenal gland.