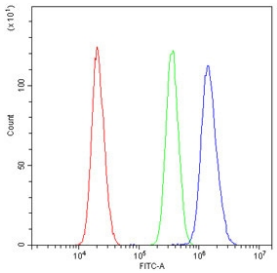
AKR1B1 Antibody / Aldose reductase (R32503)

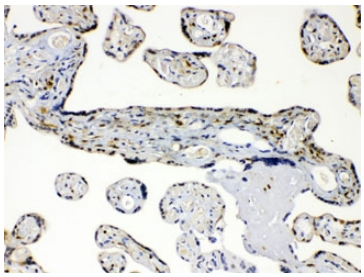
Catalog No.	Formulation	Size
R32503	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

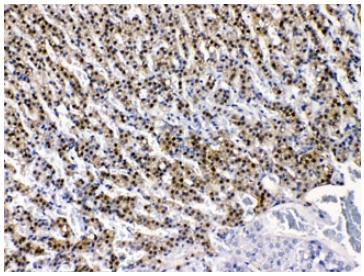
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P15121
Localization	Cytoplasmic, nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This AKR1B1 antibody is available for research use only.



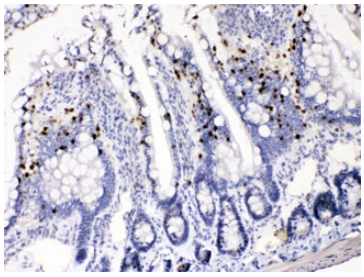
AKR1B1 Antibody FACS. Flow cytometry testing of human U-2 OS cells with AKR1B1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AKR1B1 antibody.



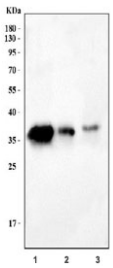
AKR1B1 Antibody Placenta IHC. Immunohistochemistry testing of FFPE human placenta with AKR1B1 antibody at 1ug/ml. HIER: steam sections in pH6 citrate buffer for 20 min.



AKR1B1 Antibody Rat Adrenal Gland IHC. Immunohistochemistry testing of FFPE rat adrenal gland with AKR1B1 antibody at 1ug/ml. HIER: steam sections in pH6 citrate buffer for 20 min.



AKR1B1 Antibody Rat Intestine IHC. Immunohistochemistry testing of FFPE rat intestine with AKR1B1 antibody at 1ug/ml. HIER: steam sections in pH6 citrate buffer for 20 min.



AKR1B1 Antibody WB. Western blot testing of 1) human SiHa, 2) rat testis and 3) mouse NIH 3T3 cell lysate with AKR1B1 antibody at 0.5ug/ml. Predicted molecular weight ~36 kDa.

Description

AKR1B1 Antibody specifically detects Aldo-keto reductase family 1, member B1 (aldose reductase), also known as AR, an enzyme that in humans is encoded by the AKR1B1 gene. This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol.

For broader validation data and polyol pathway-associated metabolic signaling research applications, explore our Aldose Reductase Antibody / Polyol Pathway Marker page.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the AKR1B1 antibody to be titrated for optimal performance.

Immunogen

Amino acids L228-F316 from the human protein were used as the immunogen for the AKR1B1 antibody.

Storage

After reconstitution, the AKR1B1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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