

AKR1B10 Antibody (aa100-200)
Rabbit Polyclonal Antibody
Catalog # ALS12059**Specification****AKR1B10 Antibody (aa100-200) - Product Information**

Application	IHC
Primary Accession	O60218
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36kDa KDa

AKR1B10 Antibody (aa100-200) - Additional Information**Gene ID** 57016**Other Names**

Aldo-keto reductase family 1 member B10, 1.1.1.-, ARL-1, Aldose reductase-like, Aldose reductase-related protein, ARP, hARP, Small intestine reductase, SI reductase, AKR1B10, AKR1B11

Target/Specificity

A portion of amino acids 100-200 of human AKR1B10 protein was used as the immunogen.

Reconstitution & Storage

Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

Precautions

AKR1B10 Antibody (aa100-200) is for research use only and not for use in diagnostic or therapeutic procedures.

AKR1B10 Antibody (aa100-200) - 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: [9565553](http://www.uniprot.org/citations/9565553), PubMed: [18087047](http://www.uniprot.org/citations/18087047), PubMed: [12732097](http://www.uniprot.org/citations/12732097), PubMed: [19013440](http://www.uniprot.org/citations/19013440), PubMed: [19563777](http://www.uniprot.org/citations/19563777)). Displays strong enzymatic activity toward all-trans- retinal, 9-cis-retinal, and 13-cis-retinal (PubMed: [12732097](http://www.uniprot.org/citations/12732097), PubMed: [18087047](http://www.uniprot.org/citations/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

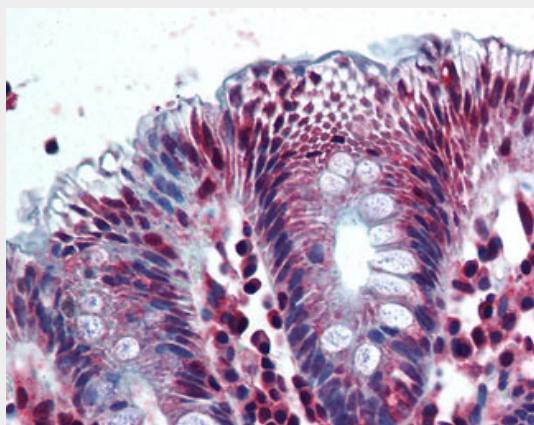
Found in many tissues. Highly expressed in small intestine, colon and adrenal gland.

AKR1B10 Antibody (aa100-200) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AKR1B10 Antibody (aa100-200) - Images



Anti-AKR1B10 antibody IHC of human colon.

AKR1B10 Antibody (aa100-200) - Background

Acts as all-trans-retinaldehyde reductase. Can efficiently reduce aliphatic and aromatic aldehydes, and is less active on hexoses (in vitro). May be responsible for detoxification of reactive aldehydes in the digested food before the nutrients are passed on to other organs.

AKR1B10 Antibody (aa100-200) - References

Cao D.,et al.J. Biol. Chem. 273:11429-11435(1998).
Hyndman D.J.,et al.Biochim. Biophys. Acta 1399:198-202(1998).
Heringlake S.,et al.Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.

Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.