SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-AKR1B10 antibody

**Catalog Number: SL6274R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

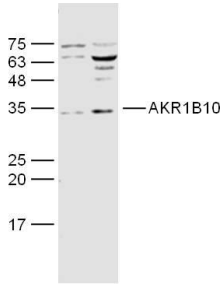
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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | AKR1B10 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human AKR1B10: 8-110/316 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB=1:500-2000 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human(predicted:Mouse,Rat,Rabbit) |
| **Predicted MW.:** | 35kDa |
| **Subcellular Location:** | cytoplasmic Secretory protein |
| **Background:** | AKR1B10 is also known as aldose reductase-like-1 (ARL-1), small intestine reductase (SI reductase) or aldose reductase-related protein (ARP or hARP). AKR1B10 is found in many tissues but is predominantly expressed in small intestine, colon and adrenal gland. AKR1B10 is an efficient reductase for aliphatic and aromatic aldehydes. It plays a role in steroid metabolism as well as detoxification of aldehydes in digested food, and may be involved in the retinal-retinoic acid signaling pathway. AKR1B10 is prominently overexpressed in non-small cell lung carcinoma and adenocarcinoma. Cigarette smoking is an independent variable responsible for this overexpression. AKR1B10 may play a role regulating cell proliferation and cellular response to carbonyl stress.<br>**Function:** 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. |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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| | **Subcellular Location:** Lysosome. Secreted. Note=Secreted through a lysosome-mediated non-classical pathway.<br>**Tissue Specificity:** Found in many tissues. Highly expressed in small intestine, colon and adrenal gland.<br>**Similarity:** Belongs to the aldo/keto reductase family.<br>**Database links:**<br>**Entrez Gene:** 57016 Human<br>Omim: 604707 Human<br>**SwissProt:** O60218 Human<br>**Unigene:** 116724 Human |

## [ VALIDATION IMAGES ]




Sample:
A549 Cell Lysate at 40 ug
SW480 Cell Lysate at 40 ug
Primary: Anti- AKR1B10 (SL6274R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 35 kD
Observed band size: 35 kD

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