**Product datasheet**

**Anti-AKR7A2 antibody ab175295**

1 References 3 Images

**Overview**

**Product name**  Anti-AKR7A2 antibody

**Description**  Rabbit polyclonal to AKR7A2

**Host species**  Rabbit

**Tested applications**  Suitable for: IHC-P, WB

**Species reactivity**  Reacts with: Mouse, Rat, Human

**Immunogen**  Recombinant full length protein corresponding to Human AKR7A2 aa 1-359.

Sequence:

```
MLSAASRVSRAAVHCALRSPPPEARALAMSRRPPPP
RVASVLGMEMGRRR
MDAPASAAAARFALEQHTELDTAFMYSDQGETILG
GLGLGLGGGCRV
KIATKANPVIDGKSLKPDSVRSQETSLKLRCQPQVDL
FYLHAPDHGTPVE
ETLHACQRLHGEKGFDHELGLSNYASWAVEIACTLCKS
NGWILPTVGGMY
NATRQVTELFPCLRHFGLRFYAYNPLAGGLTTGYK
YEDKDGKQVGR
FFGNSWAETYRNFWEHHFEEAIALSEKEQALQAAYGAS
APSVTSAALRWMY
HHSQGTAHGDVAILGMSSELQLEQNLATCCTEGPEP
AVVDAFNQAWHLV AHECPNYFR
```

Database link: [O43488](#)

**Positive control**  HepG2 cell lysate.

**Properties**

**Form**  Liquid

**Storage instructions**  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

**Storage buffer**  pH: 7.30

Preservative: 0.02% Sodium azide
Constituents: 49% PBS, 50% Glycerol

Purity
Protein A purified

Clonality
Polyclonal

Isotype
IgG

Applications
Our Abpromise guarantee covers the use of ab175295 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/50 - 1/200. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
<td></td>
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Target

Function
Catalyzes the NADPH-dependent reduction of succinic semialdehyde to gamma-hydroxybutyrate. May have an important role in producing the neuromodulator gamma-hydroxybutyrate (GHB). Has broad substrate specificity. Has NADPH-dependent aldehyde reductase activity towards 2-carboxybenzaldehyde, 2-nitrobenzaldehyde and pyridine-2-aldehyde (in vitro). Can reduce 1,2-naphthoquinone and 9,10-phenanthrenequinone (in vitro). Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. May be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen.

Tissue specificity
Detected in brain, liver, small intestine and testis, and at lower levels in heart, prostate, skeletal muscle and spleen. Detected in kidney proximal and distal tubules, endothelial cells lining the Bowman's capsules and some cysts. Detected at low levels in lung and pancreas (at protein level). Widely expressed.

Sequence similarities
Belongs to the aldo/keto reductase 2 family.

Cellular localization
Golgi apparatus. Cytoplasm.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver cancer tissue labelling AKR7A2 with ab175295 at 1/200. Magnification: 200x.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney cancer tissue labelling AKR7A2 with ab175295 at 1/200. Magnification: 400x.

Anti-AKR7A2 antibody (ab175295) at 1/500 dilution + HepG2 cell lysate

**Predicted band size:** 40 kDa

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