Product datasheet

Anti-AKR1C3 antibody ab137546

Overview

Product name: Anti-AKR1C3 antibody
Description: Rabbit polyclonal to AKR1C3
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Human
Immunogen: Recombinant fragment, corresponding to a region within amino acids 1-189 of Human AKR1C3.
Positive control: HeLa, HepG2 and Molt-4 whole cell lysates; Human NCI-N87 xenograft.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: pH: 7.00
Preservative: 0.01% Thimerosal (merthiolate)
Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab137546 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/100 - 1/1000. Perform heat mediated antigen retrieval using 10mM Citrate buffer (pH6.0) or Tris-EDTA buffer (pH8.0).</td>
<td></td>
</tr>
</tbody>
</table>
**Function**
Catalyzes the conversion of aldehydes and ketones to alcohols. Catalyzes the reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ) and the oxidation of 9-alpha,11-beta-PGF2 to PGD2. Functions as a bi-directional 3-alpha-, 17-beta- and 20-alpha HSD. Can interconvert active androgens, estrogens and progestins with their cognate inactive metabolites. Preferentially transforms androstenedione (4-dione) to testosterone.

**Tissue specificity**
Expressed in many tissues including adrenal gland, brain, kidney, liver, lung, mammary gland, placenta, small intestine, colon, spleen, prostate and testis. The dominant HSD in prostate and mammary gland. In the prostate, higher levels in epithelial cells than in stromal cells. In the brain, expressed in medulla, spinal cord, frontotemporal lobes, thalamus, subthalamic nuclei and amygdala. Weaker expression in the hippocampus, substantia nigra and caudate.

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

**Cellular localization**
Cytoplasm.

**Images**

Immunohistochemical analysis of paraffin-embedded NCI-N87 xenograft, labelling AKR1C3 with ab137546 at 1/100 dilution.

All lanes: Anti-AKR1C3 antibody (ab137546) at 1/1000 dilution

Lane 1: HeLa whole cell lysate
Lane 2: HepG2 whole cell lysate
Lane 3: Molt-4 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 37 kDa

10% SDS PAGE
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors