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Datasheet for ABIN2855872 anti-AKR1C3 antibody (C-Term)

5 Images



Overview

| Quantity: | 100 µL |
|----------------------|--|
| Target: | AKR1C3 |
| Binding Specificity: | C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This AKR1C3 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunocytochemistry (ICC) |

Product Details

| Immunogen: | Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human AKR1C3. The exact sequence is proprietary. |
|-------------------|---|
| Isotype: | lgG |
| Cross-Reactivity: | Human, Rat |
| Characteristics: | Rabbit Polyclonal antibody to AKR1C3 (aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)) AKR1C3 antibody [C2C3], C-term |
| Purification: | Purified by antigen-affinity chromatography. |
| Grade: | KO Validated |

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Target Details

| Target: | AKR1C3 |
|---------------------|---|
| Alternative Name: | aldo-keto reductase family 1 member C3 (AKR1C3 Products) |
| Background: | This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ), and the oxidation of 9alpha,11beta-PGF2 to PGD2. It may play an important role in the pathogenesis of allergic diseases such as asthma, and may also have a role in controlling cell growth and/or differentiation. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Cellular Localization: Cytoplasm |
| Molecular Weight: | 37 kDa |
| Gene ID: | 8644 |
| UniProt: | P42330 |
| Pathways: | Retinoic Acid Receptor Signaling Pathway, Steroid Hormone Biosynthesis, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, C21-Steroid Hormone Metabolic Process, Protein targeting to Nucleus |
| Application Details | |
| Application Notes: | WB: 1:5000-1:20000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. IP: 1:100-1:500. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications. |
| Comment: | Positive Control: rat liver , HepG2 , HeLa Validation: KO/KD |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Liquid |
| Concentration: | 1 mg/mL |

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Handling

| Buffer: | 1XPBS (pH 7), 40 % Glycerol, 0.01 % Thimerosal |
|--------------------|--|
| Preservative: | Thimerosal (Merthiolate) |
| Precaution of Use: | This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |

Images



Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded NCI-N87 xenograft, using AKR1C3, antibody at 1:100 dilution.



Western Blotting

Image 2. WB Image AKR1C3 antibody [C2C3], C-term detects AKR1C3 protein by Western blot analysis. A. 50 µg rat liver lysate/extract 10 % SDS-PAGE AKR1C3 antibody [C2C3], C-term , dilution: 1:2000

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Immunofluorescence

Image 3. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using AKR1C3, antibody at 1:200 dilution.

Please check the product details page for more images. Overall 5 images are available for ABIN2855872.