

AKR1C3 Rabbit pAb

Catalog No.: A1781 **2 Publications**

Basic Information

Observed MW

37kDa

Calculated MW

37kDa

Category

Primary antibody

Applications

WB,IF/ICC,IP,ELISA

Cross-Reactivity

Human, Mouse

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 9 α ,11 β -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. Three transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB 1:500 - 1:1000

IF/ICC 1:50 - 1:200

IP 0.5 μ g-4 μ g antibody for
200 μ g-400 μ g extracts of
whole cells

ELISA Recommended starting
concentration is 1 μ g/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Contact

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Immunogen Information

Gene ID

8644

Swiss Prot

P42330

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-323 of human AKR1C3 (NP_003730.4).

Synonyms

DD3; DDX; PGFS; HAKRB; HAKRe; HA1753; HSD17B5; hluPGFS; AKR1C3

Product Information

Source

Rabbit

Isotype

IgG

Purification

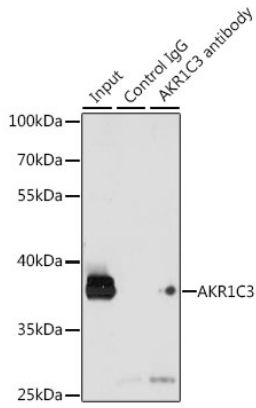
Affinity purification

Storage

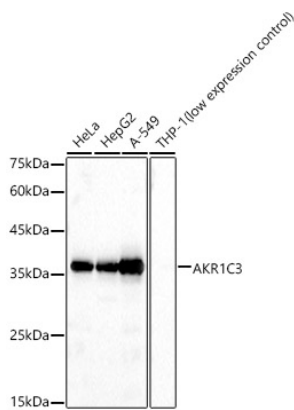
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

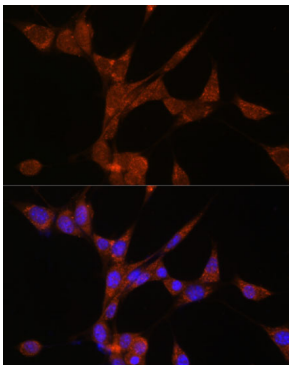
Validation Data



Immunoprecipitation analysis of 200 µg extracts of K-562 cells, using 3 µg AKR1C3 antibody (A1781). Western blot was performed from the immunoprecipitate using AKR1C3 antibody (A1781) at a dilution of 1:1000.



Western blot analysis of various lysates, using AKR1C3 Rabbit pAb (A1781) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunofluorescence analysis of NIH/3T3 cells using AKR1C3 Rabbit pAb (A1781) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.