

# AKR7A2 Antibody (NT)

**ALTERNATE NAMES:** AKR7A2; AFAR; AFAR1; AKR7; Aflatoxin B1 aldehyde reductase member 2; AFB1 aldehyde reductase 1; Aldoketoreductase 7; Succinic semialdehyde reductase.

**CATALOG #:** 6741-100

**AMOUNT:** 100 µl

**HOST/ISOTYPE:** Rabbit IgG

**IMMUNOGEN:** This AKR7A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 101-129 amino acids from the N-terminal region of human AKR7A2.

**PURIFICATION:** This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**MOLECULAR WEIGHT:** ~35.85 kDa

**FORM:** Liquid

**FORMULATION:** Supplied in PBS with 0.09% (W/V) sodium azide.

**SPECIES REACTIVITY:** Human and mouse. Predicted cross reactivity with rat samples.

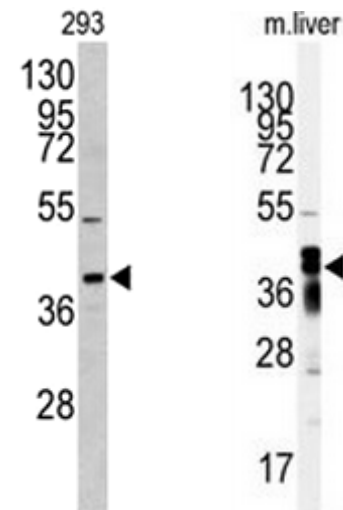
**STORAGE CONDITIONS:** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

**DESCRIPTION:** The aldo-keto reductase 7 (AKR7) family includes AKR7A2, AKR7A3 and AKR7A4 in human, AKR7A5 in mouse and AKR7A2 in rat, all of which function in the metabolism of aflatoxin B(1) and other dicarbonyl-containing compounds. More specifically, AKR7A proteins are involved in the metabolism of compounds with ketone groups on adjacent carbon atoms in a broad range of tissues, notably the liver. The human AKR7A2 gene maps to human chromosome 1p35-36, a region frequently deleted in sporadic colorectal cancer. The functional significance of this correlation lies in the constitutive expression of AKR7A2 in human liver to eliminate aflatoxin (an environmental carcinogen), thus acting as an endogenous chemo-preventative agent.

**APPLICATION:** Western blot: ~1:1000.

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.

**FOR RESEARCH USE ONLY! Not to be used on humans.**



AKR7A2 Antibody western blot analysis in 293 cell line lysates and mouse liver tissue lysates (35 µg/lane).

**RELATED PRODUCTS:**

- Human recombinant ALDH2 (Cat. No. 6332-100)
- Human recombinant ALDH3A1 (Cat. No. 6333-50)
- Human recombinant AKR7A3 (Cat. No. 6334-50)
- Human recombinant AKR7A2 (Cat. No. 6335-50)
- Human recombinant AKR1C1 (Cat. No. 6336-50)
- Human recombinant AKR1C3 (Cat. No. 6337-50)
- Human recombinant AKR1B10 (Cat. No. 6339-50)

