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AKR7A3 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21988c

Specification

AKR7A3 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	O95154
Reactivity	**Human**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**37206**

AKR7A3 Antibody (Center) - Additional Information

Gene ID 22977

Other Names
Aflatoxin B1 aldehyde reductase member 3, 1.-.-.-, AFB1 aldehyde reductase 2, AFB1-AR 2, AKR7A3, AFAR2

Target/Specificity
This AKR7A3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 187-217 amino acids from the Central region of human AKR7A3.

Dilution
WB~~1:2000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
AKR7A3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

AKR7A3 Antibody (Center) - Protein Information

Name AKR7A3 (HGNC:390)

Function Catalyzes the NADPH-dependent reduction of various carbonyl- containing compounds, including aldehydes, ketones, and toxic products from cellular metabolism or environmental

exposure. Can reduce the dialdehyde form of aflatoxin B1 (AFB1) into alcohol derivatives, via monoaldehydes intermediates. Can reduce the dialdehyde form of aflatoxin B1 (AFB1) into alcohol derivatives, via monoaldehydes intermediates, thus preventing the formation of protein adducts that contribute to AFB1-induced toxicity.

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:P38918}.

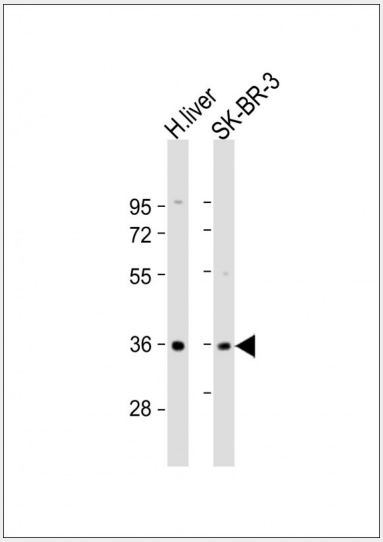
Tissue Location
Expressed in colon, kidney, liver, pancreas, adenocarcinoma and endometrium.

AKR7A3 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AKR7A3 Antibody (Center) - Images



All lanes : Anti-AKR7A3 Antibody (Center) at 1:2000 dilution Lane 1: human liver lysate Lane 2: SK-BR-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

AKR7A3 Antibody (Center) - Background

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.

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AKR7A3 Antibody (Center) - References

Knight L.P.,et al.Carcinogenesis 20:1215-1223(1999).
Praml C.,et al.Oncogene 22:4765-4773(2003).
Gregory S.G.,et al.Nature 441:315-321(2006).
Bodreddigari S.,et al.Chem. Res. Toxicol. 21:1134-1142(2008).