

AKR7A3 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI13690

Product Information

Application	WB
Primary Accession	O95154
Other Accession	NM_012067 , NP_036199
Reactivity	Human, Mouse, Rat, Zebrafish, Dog, Guinea Pig, Horse, Bovine
Predicted	Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37206

Additional Information

Gene ID	22977
Alias Symbol	AFAR2
Other Names	Aflatoxin B1 aldehyde reductase member 3, 1.-.-, AFB1 aldehyde reductase 2, AFB1-AR 2, AKR7A3, AFAR2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-AKR7A3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	AKR7A3 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

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}.

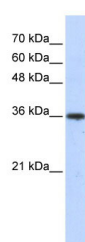
Tissue Location

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

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).

Images



WB Suggested Anti-AKR7A3 Antibody Titration: 0.2-1
µg/ml
ELISA Titer: 1:12500
Positive Control: Transfected 293T

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.