

AKR7A3 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI13690**Specification**

AKR7A3 antibody - middle region - Product Information

Application	WB
Primary Accession	O95154
Other Accession	NM_012067 , NP_036199
Reactivity	Human, Mouse, Rat, Horse, Bovine, Guinea Pig, Dog
Predicted Host	Horse, Bovine, Guinea Pig
Clonality	Rabbit
Calculated MW	Polyclonal 37kDa KDa

AKR7A3 antibody - middle region - 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.

AKR7A3 antibody - middle region - 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}.

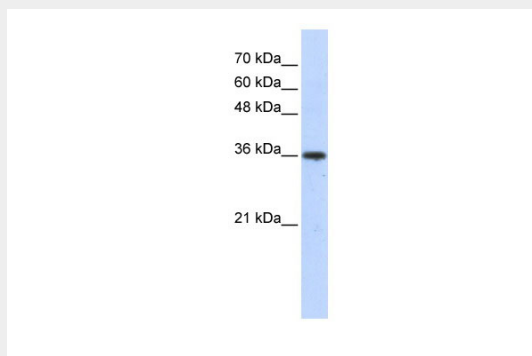
Tissue Location

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

AKR7A3 antibody - middle region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AKR7A3 antibody - middle region - Images

WB Suggested Anti-AKR7A3 Antibody Titration: 0.2-1 μ g/ml

ELISA Titer: 1:12500

Positive Control: Transfected 293T

AKR7A3 antibody - middle region - 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).