

AKR7A2 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP7186a

Specification

AKR7A2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession

043488

AKR7A2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 8574

Other Names

Aflatoxin B1 aldehyde reductase member 2, 111n11, AFB1 aldehyde reductase 1, AFB1-AR 1, Aldoketoreductase 7, Succinic semialdehyde reductase, SSA reductase, AKR7A2, AFAR, AFAR1, AKR7

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP7186a was selected from the N-term region of human AKR7A2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AKR7A2 Antibody (N-term) Blocking Peptide - Protein Information

Name AKR7A2

Synonyms AFAR, AFAR1, AKR7

Function

Catalyzes the NADPH-dependent reduction of succinic semialdehyde to gamma-hydroxybutyrate. May have an important role in producing the neuromodulator gamma-hydroxybutyrate (GHB). Has broad substrate specificity. Has NADPH-dependent aldehyde reductase activity towards 2-carboxybenzaldehyde, 2-nitrobenzaldehyde and pyridine-2- aldehyde (in vitro). Can reduce 1,2-naphthoquinone and 9,10- phenanthrenequinone (in vitro). 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.



Cellular Location

Mitochondrion. Golgi apparatus {ECO:0000250|UniProtKB:Q8CG45}. Cytoplasm

Tissue Location

Detected in brain, liver, small intestine and testis, and at lower levels in heart, prostate, skeletal muscle and spleen. Detected in kidney proximal and distal tubules, endothelial cells lining the Bowman's capsules and some cysts. Detected at low levels in lung and pancreas (at protein level). Widely expressed

AKR7A2 Antibody (N-term) Blocking Peptide - Protocols

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

• Blocking Peptides

AKR7A2 Antibody (N-term) Blocking Peptide - Images

AKR7A2 Antibody (N-term) Blocking Peptide - Background

AKR7A2 is aldo-keto reductases, which are involved in the detoxification of aldehydes and ketones.

AKR7A2 Antibody (N-term) Blocking Peptide - References

Ireland L.S., Harrison D.J.Biochem. J. 332:21-34(1998)Kelly V.P., Sherratt P.J.Biochem. J. 366:847-861(2002)