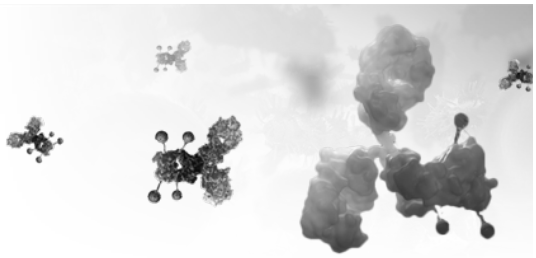

Mouse anti-Human AKR7A2 monoclonal antibody, clone 3B7 (CABT-B9743)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	AKR7A2 (AAH04111, 1 a.a. ~ 331 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	3B7
Conjugate	Unconjugated
Applications	WB,sELISA,ELISA
Sequence Similarities	MSRPPPPRVASVLGTMEMGRRMDAPASAAAVRAFLERGHTELDTAFMYSDGQSETILGGL GLGLGGGDCRVKIATKANPWDGKSLKPDSVRSQLETSLKRLQCPQVDLFYLHAPDHGTPV EETLHACQRLHQEGKFVELGLSNYASWEVAEICTLCKSNGWILPTVYQGMYNATTRQVET ELFPCLRHFGLRFYAYNPLAGGLLTGKYKYEDKDGKQPVGRFFGNSWAETYRNRFWKEHH FEAIALVEKALQAAY
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

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Introduction	The protein encoded by this gene belongs to the aldo/keto reductase (AKR) superfamily and AKR7 family, which are involved in the detoxification of aldehydes and ketones. The AKR7 family consists of 3 genes that are present in a cluster on the p arm of chromosome 1. This protein, thought to be localized in the golgi, catalyzes the NADPH-dependent reduction of succinic semialdehyde to the endogenous neuromodulator, gamma-hydroxybutyrate. It may also function as a detoxication enzyme in the reduction of aflatoxin B1 and 2-carboxybenzaldehyde. [provided by RefSeq, Oct 2011]
Keywords	AKR7A2; aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase); AFAR; AKR7; AFAR1; AFB1-AR1; aflatoxin B1 aldehyde reductase member 2; AFB1-AR 1; HEL-S-166mP; SSA reductase; aldoketoreductase 7; AFB1 aldehyde reductase 1; succinic semialdehyde reductase; aflatoxin beta1 aldehyde reductase; epididymis secretory sperm binding protein Li 166mP;

GENE INFORMATION

Entrez Gene ID	8574
UniProt ID	O43488
Pathway	Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem
Function	alditol:NADP+ 1-oxidoreductase activity; electron carrier activity; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor

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