

Datasheet

AKR1A1 monoclonal antibody (M01), clone 1A11-2A4

Catalog Number: H00010327-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full length recombinant AKR1A1.

Clone Name: 1A11-2A4

Immunogen: AKR1A1 (AAH00670, 1 a.a. ~ 325 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

MAASCVLLHTGQKMP LIGLGTWKSEPGQVKA AVKYAL
SVGYRHIDCAA IYGNEPEIGEAL KEDVGP GKAVPREEL
FVTSKLWNTKHH PEDVEPALRKT LADLQLEYLDLYLM
HWPYAFERGDNPFPKNADGTICYDSTHYKETWKALEA
LVAKGLVQALG LSNFNSRQIDDILSVASVRPAVLQVEC
HPYLAQNELIAHCQARGLEVTAYSPLGSSDRAWRPD
EPVLLEEPVVLALAEKYGRSPAQILLRWQVQRKVICIPK
SITPSRILQNIKVFDFTF SPEEMKQLNALNKNWRYIVPM
LTVDGKRVPRDAGHPLYPFNDPY

Host: Mouse

Reactivity: Human

Applications: ELISA, IHC-P, S-ELISA, WB-Ce, WB-Re, WB-Tr

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG1 Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 10327

Gene Symbol: AKR1A1

Gene Alias: ALDR1, ALR, ARM, DD3, MGC12529, MGC1380

Gene Summary: This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member, also known as aldehyde reductase, is involved in the reduction of biogenic and xenobiotic aldehydes and is present in virtually every tissue. Alternative splicing of this gene results in two transcript variants encoding the same protein. [provided by RefSeq]

References:

1. Androgen receptor signaling induced by supraphysiological doses of dihydrotestosterone in human peripheral blood lymphocytes. Imperlini E, Mancini A, Spaziani S, Martone D, Alfieri A, Gemei M, Vecchio LD, Buono P, Orru S. *Proteomics*. 2010 Jul 19. [Epub ahead of print]
2. Aldo-keto reductase 1C2 fails to metabolize doxorubicin and daunorubicin in vitro. Takahashi RH, Bains OS, Pfeifer TA, Grigliatti TA, Reid RE, Riggs KW. *Drug Metab Dispos*. 2008 Jun;36(6):991-4. Epub 2008 Mar 5.
3. Two allelic variants of aldo-keto reductase 1A1 exhibit reduced in vitro metabolism of daunorubicin. Bains OS, Takahashi RH, Pfeifer TA, Grigliatti TA, Reid RE, Riggs KW. *Drug Metab Dispos*. 2008 May;36(5):904-10. Epub 2008 Feb 14.