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AADAC Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant AADAC.
Catalog # AT1002a

Product Information

Application	WB, E
Primary Accession	P22760
Other Accession	NM_001086
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2E9
Calculated MW	45734

Additional Information

Gene ID	13
Other Names	Arylacetamide deacetylase, AADAC, DAC
Target/Specificity	AADAC (NP_001077, 201 a.a. ~ 300 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	AADAC Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

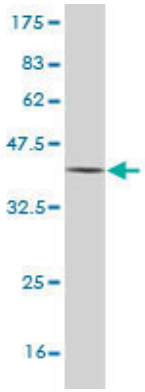
Microsomal arylacetamide deacetylase competes against the activity of cytosolic arylamine N-acetyltransferase, which catalyzes one of the initial biotransformation pathways for arylamine and heterocyclic amine carcinogens

References

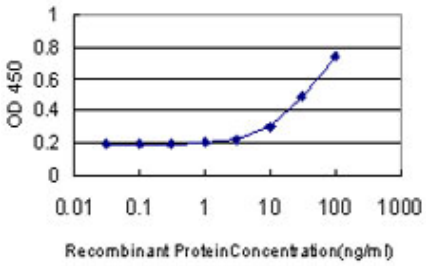
1.N-Glycosylation during translation is essential for human arylacetamide deacetylase enzyme activity.Muta K, Fukami T, Nakajima M, Yokoi TBiochem Pharmacol. 2013 Oct 11. pii: S0006-2952(13)00651-5. doi: 10.1016/j.bcp.2013.10.001.2.Metabolic activation by human arylacetamide deacetylase, CYP2E1, and CYP1A2 causes phenacetin-induced methemoglobinemia.Kobayashi Y, Fukami T, Higuchi R, Nakajima M, Yokoi

T.Biochem Pharmacol. 2012 Aug 23.3.A Novel Polymorphic Allele of Human Arylacetamide Deacetylase Leads to Diminished Enzyme Activity.Shimizu M, Fukami T, Kobayashi Y, Takamiya M, Aoki Y, Nakajima M, Yokoi T.Drug Metab Dispos. 2012 Mar 13. [Epub ahead of print]4.Species differences in tissue distribution and enzyme activities of arylacetamide deacetylase in human, rat, and mouse.Kobayashi Y, Fukami T, Nakajima A, Watanabe A, Nakajima M, Yokoi T.Drug Metab Dispos. 2012 Apr;40(4):671-9. Epub 2011 Dec 29.5.Human Arylacetamide Deacetylase Is A Principal Enzyme in Flutamide Hydrolysis.Watanabe A, Fukami T, Nakajima M, Takamiya M, Aoki Y, Yokoi T.Drug Metab Dispos. 2009 Jul;37(7):1513-20. Epub 2009 Apr 1.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Detection limit for recombinant GST tagged AADAC is approximately 3ng/ml as a capture antibody.

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