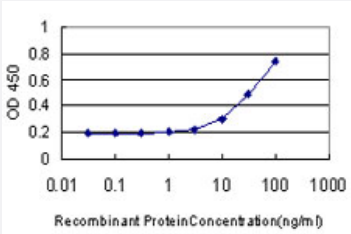
AADAC monoclonal antibody (M01), clone 2E8

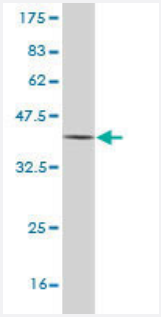
Catalog # H00000013-M01 Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant AADAC.
Immunogen	AADAC (NP_001077, 201 a.a. ~ 300 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	QLLDDPDVKIKLKIQSLIYPALQPLDVDLPSYQENSNFLFLSKSLMVRFWSEYFTTDRSLEKAMLS RQHVPVESSHLFKFINWSSLLPERFIKGHVYNNP
Host	Mouse
Reactivity	Human

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Interspecies Antigen Sequence	Mouse (73); Rat (69)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA
- Sandwich ELISA (Recombinant protein)

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

  Protocol Download
- Western Blot (Recombinant protein)

  Protocol Download

Gene Info — AADAC

Entrez GeneID	13
GeneBank Accession#	NM_001086
Protein Accession#	NP_001077
Gene Name	AADAC
Gene Alias	CES5A1, DAC
Gene Description	arylacetamide deacetylase (esterase)
Omim ID	600338
Gene Ontology	Hyperlink

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Gene Summary	Microsomal arylacetamide deacetylase competes against the activity of cytosolic arylamine N-ac etyltransferase, which catalyzes one of the initial biotransformation pathways for arylamine and het erocyclic amine carcinogens [provided by RefSeq
Other Designations	arylacetamide deacetylase

Publication Reference

- Arylacetamide deacetylase regulates hepatic iron homeostasis to protect against carbon tetrachloride-induced ferroptosis.

  Soshi Shinohara, Seijo Uchijima, Keiya Hirosawa, Mai Nagaoka, Masataka Nakano, Miki Nakajima, Tatsuki Fukami.

  Archives of Toxicology 2024 Dec; 98(12):4059.

  Application: WB, Mice, Liver

- N-Glycosylation during translation is essential for human arylacetamide deacetylase enzyme activity.

  Muta K, Fukami T, Nakajima M, Yokoi T.

  Biochemical Pharmacology 2014 Jan; 87(2):352.

  Application: WB-Ce, WB-Tr, Human, Huh7 cells, Liver microsomes

- Metabolic activation by human arylacetamide deacetylase, CYP2E1, and CYP1A2 causes phenacetin-induced methemoglobinemia.

  Kobayashi Y, Fukami T, Higuchi R, Nakajima M, Yokoi T.

  Biochemical Pharmacology 2012 Nov; 84(9):1196.

  Application: WB-Ti, Mouse, Liver

- A novel polymorphic allele of human arylacetamide deacetylase leads to decreased enzyme activity.

  Shimizu M, Fukami T, Kobayashi Y, Takamiya M, Aoki Y, Nakajima M, Yokoi T.

  Drug Metabolism and Disposition 2012 Jun; 40(6):1183.

  Application: WB-Ce, Monkey, COS7 cells

- 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 Metabolism and Disposition 2011 Dec; 40(4):671.

  Application: WB, Human, Mouse, Rat, Sf21 cells (insect cells)

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Human Arylacetamide Deacetylase Is A Principal Enzyme in Flutamide Hydrolysis.

  Watanabe A, Fukami T, Nakajima M, Takamiya M, Aoki Y, Yokoi T.

  Drug Metabolism and Disposition 2009 Jul; 37(7):1513.

  Application: WB-Tr, Monkey, COS-7 cells

Pathway

- Tropane

Disease

- Tobacco Use Disorder

Copyright © 2023 Abnova Corporation. All Rights Reserved.