Datasheet for ABIN7599187

anti-MIOX antibody (AA 1-266)

Go to Product page

Overview

Quantity:	100 µg
Target:	MIOX
Binding Specificity:	AA 1-266
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MIOX antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MIOX Antibody Picoband®
Immunogen:	E.coli-derived human MIOX recombinant protein (Position: M1-K266). Human MIOX shares 89.8% and 90.5% amino acid (aa) sequence identity with mouse and rat MIOX, respectively.
Characteristics:	Anti-MIOX Antibody Picoband® (ABIN7599187). Tested in WB, IHC, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	MIOX
Alternative Name:	MIOX (MIOX Products)
Background:	Myo-inositol oxygenase (MIOX), also known as ALDRL6, is a renal-specific member of the Aldo-keto reductase family. It catalyzes the first committed step in the Myo-inositol metabolism pathway and is widely distributed in mammalian tissues. Human Myo-inositol oxygenase shares 91 % and 96 % sequence homology with mouse and pig Myo-inositol oxygenase homologs, respectively. Myo-inositol oxygenase is responsible for the oxidative cleavage of Myo-inositol (MI) and its epimer D-chiro inositol (DCI) to D-glucuronate. The dioxygen-dependent cleavage of the C1-C6 bond in Myo-inositol is accomplished through the utilization of the FeII/FeIII binuclear iron center of MIOX. Myo-inositol oxygenase has also been implicated in complications of diabetes, including diabetic nephropathy.
Molecular Weight:	36 kDa
Gene ID:	55586
Pathways:	Inositol Metabolic Process

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse Immunohistochemistry, 2-5 µg/mL, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Arner, R. J., Prabhu, K. S., Thompson, J. T., Hildenbrandt, G. R., Liken, A. D., Reddy, C. C. Myo-inositol oxygenase: molecular cloning and expression of a unique enzyme that oxidizes myo-inositol and D-chiro-inositol. Biochem. J. 360: 313-320, 2001. 2. Gross, M. B. Personal Communication. Baltimore, Md. 3/31/2016. 3. Yang, Q., Dixit, J. B., Wada, J., Tian, Y., Wallner, E. I., Srivastva, S. K., Kanwar, Y. S. Identification of a renal specific oxido-reductase in newborn diabetic mice. Proc. Nat. Acad. Sci. 97: 9896-9901, 2000.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

Handling

Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.