

Datasheet for ABIN7601306
anti-IDH3B antibody (AA 32-362)



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Overview

Quantity:	100 µg
Target:	IDH3B
Binding Specificity:	AA 32-362
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IDH3B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-IDH3B Antibody Picoband®
Immunogen:	E.coli-derived human IDH3B recombinant protein (Position: A32-D362). Human IDH3B shares 97% amino acid (aa) sequence identity with rat IDH3B.
Characteristics:	Anti-IDH3B Antibody Picoband® (ABIN7601306). Tested in WB, IHC, Flow Cytometry, IP, 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:	IDH3B
Alternative Name:	IDH3B (IDH3B Products)
Background:	Isocitrate dehydrogenase [NAD] subunit beta, mitochondrial is an enzyme that in humans is encoded by the IDH3B gene. Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. NAD(+)-dependent isocitrate dehydrogenases catalyze the allosterically regulated rate-limiting step of the tricarboxylic acid cycle. Each isozyme is a heterotetramer that is composed of two alpha subunits, one beta subunit, and one gamma subunit. The protein encoded by this gene is the beta subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Molecular Weight:	42 kDa
Gene ID:	3420
UniProt:	O43837

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat Immunohistochemistry, 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human Immunoprecipitation, 0.5-2 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Hartong, D. T., Dange, M., McGee, T. L., Berson, E. L., Dryja, T. P., Colman, R. F. Insights from retinitis pigmentosa into the roles of isocitrate dehydrogenases in the Krebs cycle. <i>Nature Genet.</i> 40: 1230-1234, 2008. 2. Kim, Y.-O., Park, S.-H., Kang, Y.-J., Koh, H.-J., Kim, S.-H., Park, S.-Y., Sohn, U., Huh, T.-L. Assignment of mitochondrial NAD(+)-specific isocitrate dehydrogenase beta subunit gene (IDH3B) to human chromosome band 20p13 by in situ hybridization and radiation hybrid mapping. <i>Cytogenet. Cell Genet.</i> 86: 240-241, 1999. 3. Zenteno, J. C., Garcia-Montano, L. A., Cruz-Aguilar, M., Ronquillo, J., Rodas-Serrano, A., Aguilar-Castul, L., Matsui, R., Vencedor-Meraz, C. I., Arce-Gonzalez, R., Graue-Wiechers, F., Gutierrez-Paz, M., Urrea-Victoria, T., de Dios Cuadras, U., Chacon-Camacho, O. F. Extensive genic and allelic heterogeneity
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Application Details

	underlying inherited retinal dystrophies in Mexican patients molecularly analyzed by next-generation sequencing. Molec. Genet. Genomic Med. 8: e1044, 2020. Note: Electronic Article.
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
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.