

Rabbit IsocitRe dehydrogenase (IDH3) Polyclonal Antibody | anti-IDH3A antibody

IsocitRe dehydrogenase (IDH3) Antibody (C-term)

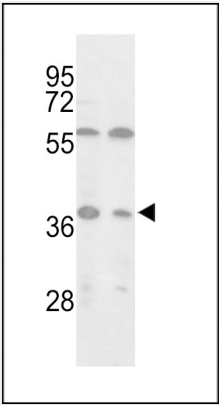
CATALOG # AAA289257	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Bovine, Monkey, Mouse, Rat)	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

IsocitRe dehydrogenase (IDH3); Polyclonal Antibody; IsocitRe dehydrogenase (IDH3) Antibody (C-term); Isocitrate dehydrogenase [NAD] subunit alpha; mitochondrial; Isocitric dehydrogenase subunit alpha; NAD(+)-specific ICDH subunit alpha; IDH3A; anti-IDH3A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Monkey, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Isocitrate dehydrogenase (IDH3) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 317-346 amino acids from the C-terminal region of human Isocitrate dehydrogenase (IDH3).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	317-346
Sequence Length	366
Applicable Applications for anti-IDH3A antibody	ELISA, WB (Western Blot)
Function	Catalytic subunit of the enzyme which catalyzes the decarboxylation of isocitrate (ICT) into alpha-ketoglutarate. The heterodimer composed of the alpha (IDH3A) and beta (IDH3B) subunits and the heterodimer composed of the alpha (IDH3A) and gamma (IDH3G) subunits, have considerable basal activity but the full activity of the heterotetramer (containing two subunits of IDH3A, one of IDH3B and one of IDH3G) requires the assembly and cooperative function of both heterodimers.
Cellular Location	Mitochondrion.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
Western blot analysis of Isocitrate dehydrogenase in MCF-7, Jurkat cell line lysates (35ug/lane). Isocitrate dehydrogenase (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-IDH3A antibody	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 described here is the alpha subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase.
Product Categories/Family for anti-IDH3A antibody	Cancer; Metabolism; Signal Transduction
References	Soundar, S., et al., J. Biol. Chem. 278(52):52146-52153 (2003). Weiss, C., et al., Biochemistry 39(7):1807-1816 (2000). Kim, Y.O., et al., J. Biol. Chem. 274(52):36866-36875 (1999). Huh, T.L., et al., Genomics 32(2):295-296 (1996). Kim, Y.O., et al., Biochem. J. 308 (PT 1), 63-68 (1995) (): ()

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031777
NCBI GeneID	3419
NCBI Accession #	NP_005521.1
NCBI GenBank Nucleotide #	NM_005530.2
UniProt Accession #	P50213; Q9H3X0; D3DW83
Molecular Weight	39592
NCBI Official Full Name	isocitrate dehydrogenase
NCBI Official Synonym Full Names	isocitrate dehydrogenase 3 (NAD+) alpha
NCBI Official Symbol	IDH3A
NCBI Protein Information	isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial
UniProt Protein Name	Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial
UniProt Gene Name	IDH3A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/isocitrate-dehydrogenase-idh3-antibody-western-blot-elisa/289257>