

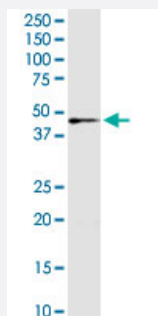
MaxPab®

IDH3G purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00003421-D01P

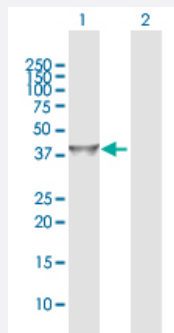
Size 100 ug

Applications



Western Blot (Tissue lysate)

IDH3G MaxPab rabbit polyclonal antibody. Western Blot analysis of IDH3G expression in mouse lung.



Western Blot (Transfected lysate)

Western Blot analysis of IDH3G expression in transfected 293T cell line ([H00003421-T01](#)) by IDH3G MaxPab polyclonal antibody.

Lane 1: IDH3G transfected lysate(42.80 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human IDH3G protein.

Immunogen

IDH3G (NP_004126.1, 1 a.a. ~ 393 a.a) full-length human protein.

Sequence

MALKVATVAGSAAKAVLGPALLCRPWEVLGAHEVPSRNIFSEQTIPPSAKYGGRRHTVTMIPGDGIG
PELMLHVKSIVFRHACVPVDFEEVHVSSNADEEDIRNAIMARRNRVALKGNIETNHNLPSPSHKSRN
NILRTSLDLYANVIHCKSLPGVVTRHKDIDILVRENTAGEYSSLEHESVAGVVESLKIITKAKSLRIAE
YAFKLAQESGRKKVTAVHKANIMKLGDGLFLQCCREVAARYPQITFENMVDNTTMQLVSRPQQF
DVMVMPNLYGNVNNVCAGLVGGPGLVAGANYGHVYAVFETATRTNGKSIANKNIANPTATLLASC
MMLDHLKLHSYATSIRKAVLASMDNENMHTPDIGGQGTSEAIQDVIRHIRVINGRAVEA

Host

Rabbit

Reactivity	Human, Mouse
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

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[Protocol Download](#)

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Gene Info — IDH3G

Entrez GeneID	3421
GeneBank Accession#	NM_004135.2
Protein Accession#	NP_004126.1
Gene Name	IDH3G
Gene Alias	H-IDHG
Gene Description	isocitrate dehydrogenase 3 (NAD+) gamma
Omim ID	300089
Gene Ontology	Hyperlink

Gene Summary

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 gamma subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase. This gene is a candidate gene for periventricular heterotopia. Several alternatively spliced transcript variants of this gene have been described, but only some of their full length natures have been determined. [provided by RefSeq]

Other Designations

IDH-gamma|NAD (H)-specific isocitrate dehydrogenase gamma subunit|NAD+-specific ICDH|OTTHUMP00000025985|isocitrate dehydrogenase, NAD(+)-specific, mitochondrial, gamma subunit|isocitric dehydrogenase

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Metabolic pathways](#)