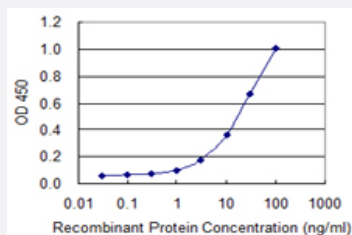


IDH3G monoclonal antibody (M01), clone 2A2-1D3

Catalog # H00003421-M01

Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged IDH3G is 0.3 ng/ml as a capture antibody.

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant IDH3G.
Immunogen	IDH3G (AAH00933, 1 a.a. ~ 393 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MALKVATVAGSAAKAVLGPALLCRPWEVLGAHEVPSRNIFSEQTIPPSAKYGGRRHTVTMIPGDGIG PELMLHVKSVMFRHACVPVDFEEVHVSSNADEEDIRNAIMAIRNRVALKGNIETNHNLPSSHKSRN NILRTSLDLYANVIHCKSLPGVVTRHKDIDILVRENTEGEYSSLEHESVAGVVESLKIITKAKSLRIAE YAFKLAQESGRKKVTAVHKANIMKLGDLFLQCCREVAARYPQITFENMVDNTTMQLVSRPQQF DVMVMPNLYGNVNNVCAGLVGGPGLVAGANYGHVYAVFETATRNTGKSIANKNIANPTATLLASC MMLDHLKLHSAASIRKAVLASMDNENMHTPDIGGQGTSEAIQDVIRHIRVINGRAVEA
Host	Mouse
Reactivity	Human
Isotype	IgG1 lambda
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged IDH3G is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — IDH3G

Entrez GeneID [3421](#)

GeneBank Accession# [BC000933](#)

Protein Accession# [AAH00933](#)

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|OT THUMP00000025985|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](#)