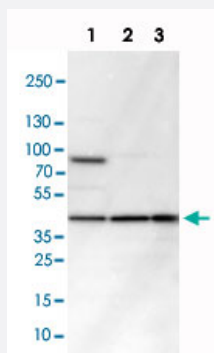


IDH3G polyclonal antibody

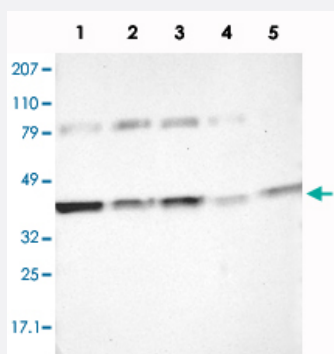
Catalog # PAB28538 Size 100 uL

Applications



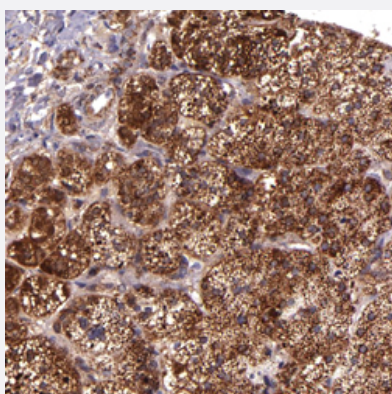
Western Blot (Cell lysate)

Western blot analysis of Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells), Lane 2: NBT-II cell lysate (Rat Wistar bladder tumour cells), Lane 3: PC12 cell lysate (Pheochromocytoma of rat adrenal medulla) with IDH3G polyclonal antibody (Cat # PAB28538) at 1:100-1:500 dilution.



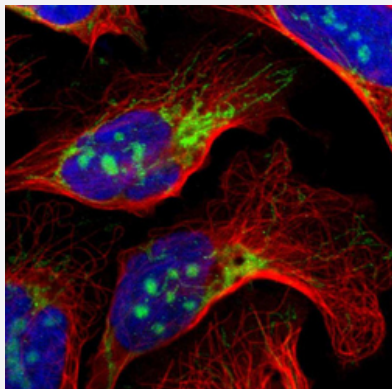
Western Blot

Western blot analysis of Lane 1: RT-4, Lane 2: EFO-21, Lane 3: A-431, Lane 4: Liver, Lane 5: Tonsil with IDH3G polyclonal antibody (Cat # PAB28538) at 1:250-1:500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human IDH3G polyclonal antibody (Cat # PAB28538) shows strong cytoplasmic positivity in cortical cells at 1:50-1:200 dilution.



Immunofluorescence

Immunofluorescent staining of human cell line U-2 OS with IDH3G polyclonal antibody (Cat # PAB28538) at 1-4 ug/ml shows positivity in nucleoli and mitochondria.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant IDH3G.
Immunogen	Recombinant protein corresponding to amino acids of human IDH3G.
Sequence	ADEEDIRNAIMAIRNRVALKGNIETNHNLPSPSHKSRNNILRTSLDLYANVIHCKSLPGVVTRHKDIDI LVRENTEGEYSSLEHESVAGVVESLKIITKAKSLRAEYAFKLAQESGRKKVTAVHKANIMKLGDGL FLQCCREVA
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1:100-1:500) Immunofluorescence (1-4 ug/ml) Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells), Lane 2: NBT-II cell lysate (Rat Wistar bladder tumour cells), Lane 3: PC12 cell lysate (Pheochromocytoma of rat adrenal medulla) with IDH3G polyclonal antibody (Cat # PAB28538) at 1:100-1:500 dilution.

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Immunofluorescent staining of human cell line U-2 OS with IDH3G polyclonal antibody (Cat # PAB28538) at 1-4 ug/ml shows positivity in nucleoli and mitochondria.

Gene Info — IDH3G

Entrez GeneID	3421
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Protein Accession#	E7EQB8
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Gene Name	IDH3G
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Gene Alias	H-IDHG
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Gene Description	isocitrate dehydrogenase 3 (NAD+) gamma
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Omim ID	300089
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Gene Ontology	Hyperlink
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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](#)