

产品名称: IDH1 Rabbit Polyclonal Antibody
产品货号: APRab12353



产品概述 (Summary)

产品名称 (Production Name)	IDH1 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	IDH1
别名 (Alternative Names)	IDH1; PICD; Isocitrate dehydrogenase [NADP] cytoplasmic; IDH; Cytosolic NADP-isocitrate dehydrogenase; IDP; NADP(+)-specific ICDH; Oxalosuccinate decarboxylase
基因 ID (Gene ID)	3417.0
蛋白 ID (SwissProt ID)	O75874.Synthesized peptide derived from the N-terminal region of human IDH1.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	46kDa

产品名称: IDH1 Rabbit Polyclonal Antibody
产品货号: AP Rab12353

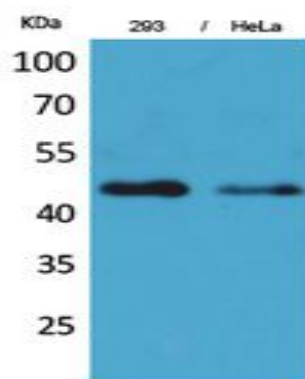
研究背景 (Background)

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. Each NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate dehydrogenase found in the cytoplasm and peroxisomes. It contains the PTS-1 peroxisomal targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the regeneration of NADPH for intraperoxisomal reductions, such as the conversion of 2, 4-dienoyl-CoAs to catalytic activity: Isocitrate + NADP(+) = 2-oxoglutarate + CO(2) + NADPH., catalytic activity: Oxalosuccinate + NADP(+) = 2-oxoglutarate + CO(2) + NADPH., cofactor: Binds 1 magnesium or manganese ion per subunit., disease: Defects in IDH1 are a cause of glioblastoma multiforme (GBM) [MIM:137800]; also called familial glioma of brain. Gliomas are central nervous system neoplasms derived from glial cells and comprise astrocytomas, glioblastoma multiforme, oligodendrogliomas, and ependymomas., miscellaneous: Cancer mutations affecting Arg-132 are tissue-specific, and suggest that this residue plays a unique role in the development of high-grade gliomas., online information: Isocitrate dehydrogenase entry, similarity: Belongs to the isocitrate and isopropylmalate dehydrogenases family., subunit: Homodimer.,

研究领域 (Research Area)

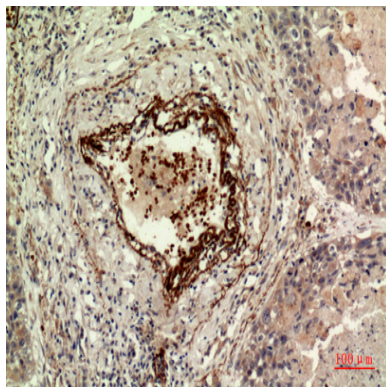
Citrate cycle (TCA cycle); Glutathione metabolism;

图片 (Image Data)

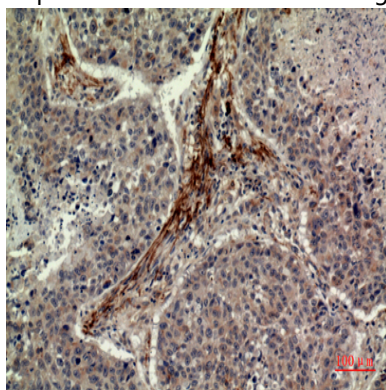


Western Blot analysis of 293, HeLa cells using IDH1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

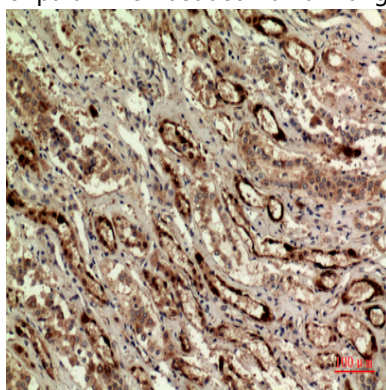
产品名称: IDH1 Rabbit Polyclonal Antibody
产品货号: APRab12353



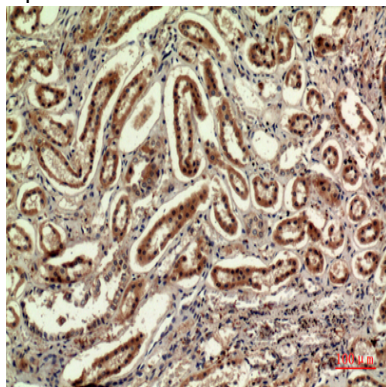
Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:100



产品名称: IDH1 Rabbit Polyclonal Antibody
产品货号: APRab12353



Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:100

注意事项 (Note)

For research use only .