Product datasheet Anti-IDH1 Antibody (Clone#OTI3G9)

BOSTER

antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY

Catalog Number: M00129-3

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

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Basic Information	
Product Name	Anti-IDH1 Antibody (Clone#OTI3G9)
Gene Name	IDH1
Source	Mouse
Clonality	Monoclonal
Isotype	lgG1
Species Reactivity	human, mouse, rat, dog
Tested Application	WB, IHC
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Synthetic peptide around the R132H mutation region of the human IDH conjugated to KLH
Concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Observed MW	47 kDa
Dilution Ratios	Western blot (WB): 1:2000 Immunohistochemistry (IHC):1:150

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

Background Information

Isocitrate dehydrogenase 1 (NADP+), soluble is an enzyme that in humans is encoded by the IDH1 gene. 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 3-enoyl-CoAs, as well as in peroxisomal reactions that consume 2-oxoglutarate, namely the alpha-hydroxylation of phytanic acid. The cytoplasmic enzyme serves a significant role in cytoplasmic NADPH production. Alternatively spliced transcript variants encoding the same protein have been found for this gene.

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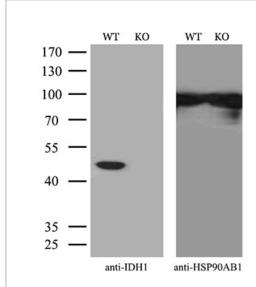
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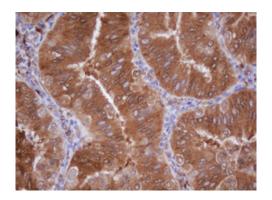
Reference

Anti-IDH1 Antibody (Clone#OTI3G9)被引用在1文献中。

Selected Validation Data



Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT) and IDH1-Knockout Hela cells (KO) were separated by SDS-PAGE and immunoblotted with anti-IDH1 monoclonal antibody M00129-3. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([M01692-2]) as a loading control (1:500).



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-IDH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, M00129-3)