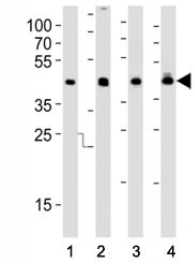
IDH1 Antibody (F50422)

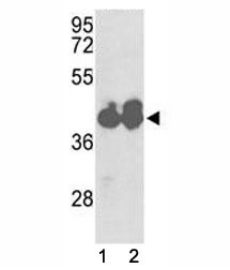
Catalog No.	Formulation	Size
F50422-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50422-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

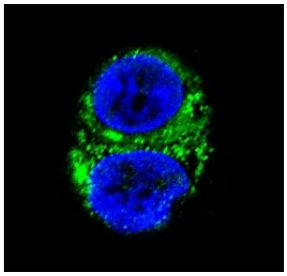
Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Rat, Bovine
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O75874
Localization	Cytoplasmic, nuclear
Applications	Western blot: 1:1000 Immunofluorescence: 1:10-1:50 IHC (Paraffin): 1:50-1:100 Flow Cytometry: 1:10-1:50
Limitations	This IDH1 antibody is available for research use only.



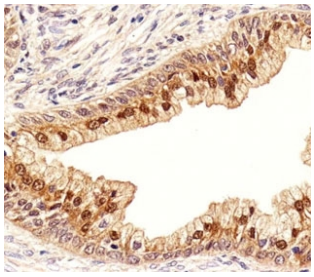
Western blot analysis of lysate from (1) HepG2, (2) MCF-7 cell line, (3) human liver and (4) rat liver tissue using IDH1 antibody at 1:1000. Predicted molecular weight ~46 kDa.



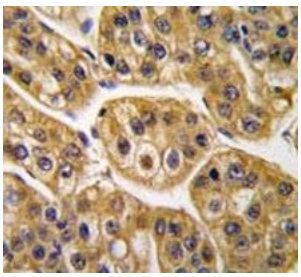
Western blot analysis of IDH1 antibody and HepG2 cell line and mouse liver tissue lysate. Predicted molecular weight ~46 kDa.



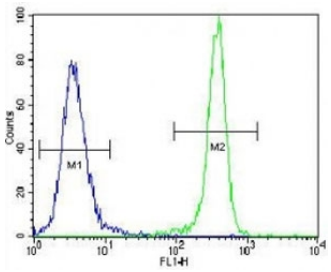
Confocal immunofluorescent analysis of IDH1 antibody with HepG2 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).



IHC analysis of FFPE human prostate section using IDH1 antibody; Ab was diluted at 1:100.



IHC analysis of FFPE human hepatocarcinoma tissue stained with IDH1 antibody



IDH1 antibody flow cytometric analysis of 293 cells (right histogram) compared to a negative control (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

IDH1 belongs to two distinct subclasses. The protein is the NADP(+)-dependent Isocitrate Dehydrogenase found in the cytoplasm and peroxisomes. This protein 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. [Wiki]

For an alternative monoclonal clone targeting IDH1, see our IDH1 Antibody IDH1/1152 / Cytosolic Isocitrate

Dehydrogenase Antibody page.

Application Notes

Titration of the IDH1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 116-143 from the human protein was used as the immunogen for this IDH1 antibody.

Storage

Aliquot the IDH1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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