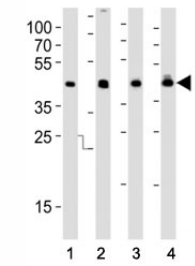
IDH1 Antibody (F50422)

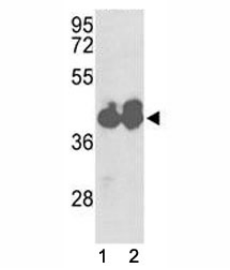
Catalog No.	Formulation	Size
F50422-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50422-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

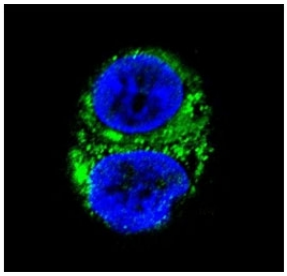
Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Bovine, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O75874
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 1:1000 Immunofluorescence : 1:10-1:50 IHC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



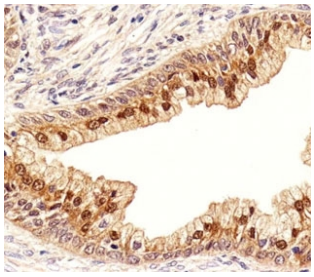
Western blot analysis of lysate from (1) HepG2, (2) MCF-7 cell line, (3) human liver and (4) rat liver tissue using IDH1 antibody at 1:1000. Predicted molecular weight ~46 kDa.



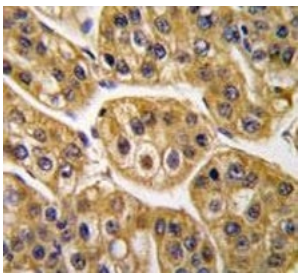
Western blot analysis of IDH1 antibody and HepG2 cell line and mouse liver tissue lysate. Predicted molecular weight ~46 kDa.



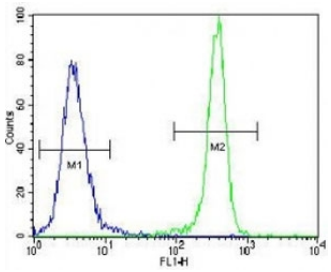
Confocal immunofluorescent analysis of IDH1 antibody with HepG2 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).



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]

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.