www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

IDH1

Reactivity: Human Mouse Rat

Tested applications:WB IHC IF IP CHIP

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200 IP 1:50 - 1:200 ChIP 1:20 - 1:100

Calculated MW:47kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human IDH1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

f

Synonym:

IDCD; IDH; IDP; IDPC; PICD;

Catalog #:A2169

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:3417

Isotype: IgG

Swiss Prot:O75874

Purity: Affinity purification

For research use only.

Background:

IDH1 is one of three isocitrate dehydrogenases that catalyze the oxidative decarboxylation of isocitrate to -ketoglutarate (-KG). These enzymes exist in two distinct subclasses that utilize either NAD or NADP+ respectively, as an electron acceptor (1). IDH1 is the NADP+-dependent isocitrate dehydrogenase found in the cytoplasm and peroxisomes. IDH2 and 3 are mitochodrial enzymes that also function in the Krebs cycle. IDH1 is inactivated by phosphorylation at Ser113 and contains a clasp-like domain wherein both polypeptide chains in the dimer interlock (2,3). IDH1 is expressed in a wide range of species and also in organisms that lack a complete citric acid cycle. Recently, an inactivating mutation of IDH1 has been implicated in glioblastoma (4). IDH1 appears to function as a tumor suppressor that, when mutationally inactivated, contributes to tumorigenesis in part through induction of the HIF-1 pathway (5).

To place an order, please Click HERE.