# IDH2 (L-15): sc-55664



The Power to Question

#### **BACKGROUND**

IDH2 (isocitrate dehydrogenase 2 (NADP+), mitochondrial), also designated NADP+-specific ICDH; isocitrate dehydrogenase, mitochondrial; and oxalosuccinate decarboxylase, is a 452 amino acid enzyme encoded by the human gene IDH2. IDH2 belongs to the isocitrate and isopropylmalate dehydrogenases family and contains two nucleotide binding regions. IDH2 is involved in the reduction of NADP+ to NADPH and maintains the supply of glutathione (GSH) in mitochondria. It is believed to play a role in intermediary metabolism and energy production. IDH2 also tightly associates with the pyruvate dehydrogenase complex. IDH2 is found in the mitochondrion as a homodimer and can bind one magnesium or manganese ion per subunit.

## **REFERENCES**

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#### CHROMOSOMAL LOCATION

Genetic locus: IDH2 (human) mapping to 15q26.1; Idh2 (mouse) mapping to 7 D3.

### SOURCE

IDH2 (L-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of IDH2 of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-55664 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

IDH2 (L-15) is recommended for detection of IDH2 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

IDH2 (L-15) is also recommended for detection of IDH2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for IDH2 siRNA (h): sc-62487, IDH2 siRNA (m): sc-62488, IDH2 shRNA Plasmid (h): sc-62487-SH, IDH2 shRNA Plasmid (m): sc-62488-SH, IDH2 shRNA (h) Lentiviral Particles: sc-62487-V and IDH2 shRNA (m) Lentiviral Particles: sc-62488-V.

Molecular Weight of IDH2: 44 kDa.

Positive Controls: DU 145 cell lysate: sc-2268 or mouse heart extract: sc-2254.

# **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try IDH1/2 (G-11): sc-373816 or IDH2 (B-6): sc-374476, our highly recommended monoclonal alternatives to IDH2 (L-15).