

Product datasheet for **TA350076**

IDH2 Rabbit Polyclonal Antibody

Product data:

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|-------------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | IHC, WB |
| Recommended Dilution: | WB: 500-2000 WB positive control: 293T and Jurkat cells, human fetal muscle tissue IHC: 100-300 Positive control: Human cervical cancer Predicted cell location: Cytoplasm |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Fusion protein of human IDH2 |
| Formulation: | pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol |
| Concentration: | lot specific |
| Purification: | Antigen affinity purification |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 51 kDa |
| Gene Name: | isocitrate dehydrogenase (NADP(+)) 2, mitochondrial |
| Database Link: | NP_002159 Entrez Gene 269951 Mouse Entrez Gene 361596 Rat Entrez Gene 3418 Human P48735 |



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Background:

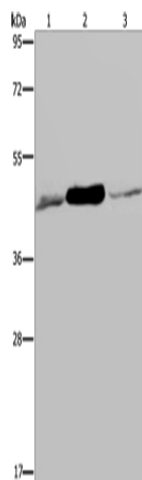
Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate 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 mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants.

Synonyms:

D2HGA2; ICD-M; IDH; IDHM; IDP; IDPM; mNADP-IDH

Protein Pathways:

Citrate cycle (TCA cycle), Glutathione metabolism, Metabolic pathways

Product images:

Gel: 8%SDS-PAGE

Lysate: 40 µg

Lane 1-3: 293T cells

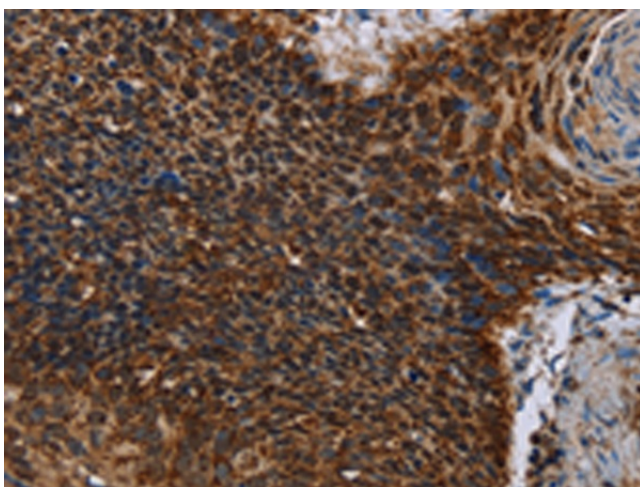
Jurkat cells

human fetal muscle tissue

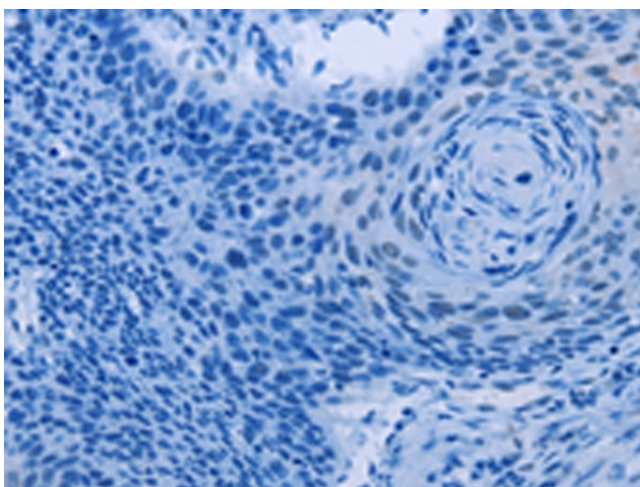
Primary antibody: TA350076 (IDH2 Antibody) at dilution 1/600

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

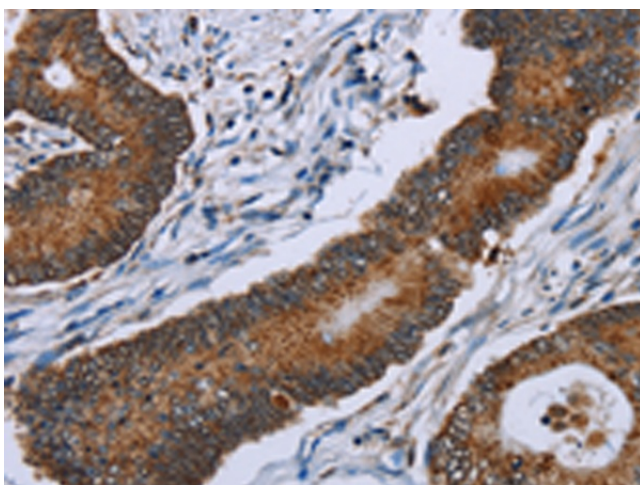
Exposure time: 10 seconds



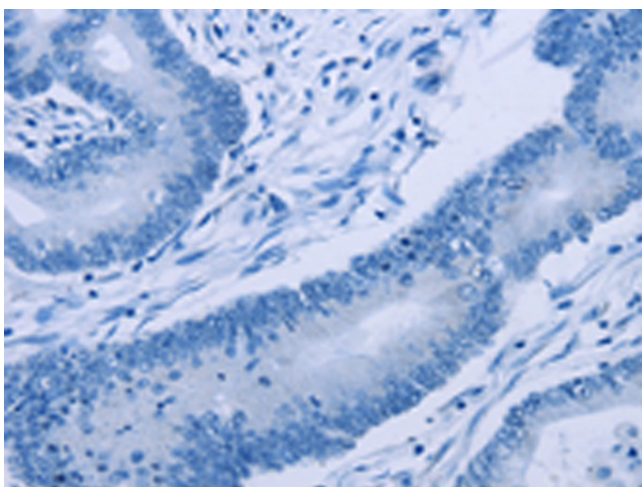
Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA350076 (IDH2 Antibody) at dilution 1/60 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA350076 (IDH2 Antibody) at dilution 1/60, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA350076 (IDH2 Antibody) at dilution 1/60 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA350076 (IDH2 Antibody) at dilution 1/60, treated with fusion protein. (Original magnification: ×200)