



# IDH3A Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-mAb-02865                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>                   | IDH3A                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>                   | Synthesized peptide derived from the Internal region of human IDH3A.                                                                                                                                                                                                                                                                                                                              |
| <b>Specificity</b>                 | IDH3A Monoclonal Antibody detects endogenous levels of IDH3A protein.                                                                                                                                                                                                                                                                                                                             |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                              |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>                    | EC:1.1.1.41;IDH3;Isocitrate dehydrogenase [NAD] subunit alpha;mitochondrial; NAD(+)-specific ICDH subunit alpha;IDH3A;Isocitrate dehydrogenase [NAD] subunit alpha mitochondrial;Isocitric dehydrogenase subunit alpha; mitochondrial                                                                                                                                                             |
| <b>Observed Band</b>               | 39kD                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Calculated Molecular Weight</b> | 39kD                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cell Pathway</b>                | Mitochondrion.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Tissue Specificity</b>          | Brain,Brain cortex,Cajal-Retzius cell,Esophagus tumor,Fetal                                                                                                                                                                                                                                                                                                                                       |
| <b>Function</b>                    | catalytic activity:Isocitrate + NAD(+) = 2-oxoglutarate + CO(2) + NADH., cofactor:Binds 1 magnesium or manganese ion per subunit.,similarity:Belongs to the isocitrate and isopropylmalate dehydrogenases family., subunit:Heterooligomer of subunits alpha, beta, and gamma in the apparent ratio of 2:1:1.,                                                                                     |
| <b>Background</b>                  | 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. NAD(+)-dependent isocitrate dehydrogenases catalyze the allosterically regulated rate-limiting step of the tricarboxylic acid cycle. Each isozyme is a heterotetramer that is composed of two alpha subunits, one beta subunit, and one gamma subunit. The protein encoded by this gene is the alpha subunit of one isozyme of NAD(+)-dependent isocitrate dehydrogenase. [provided by RefSeq, Jul 2008],

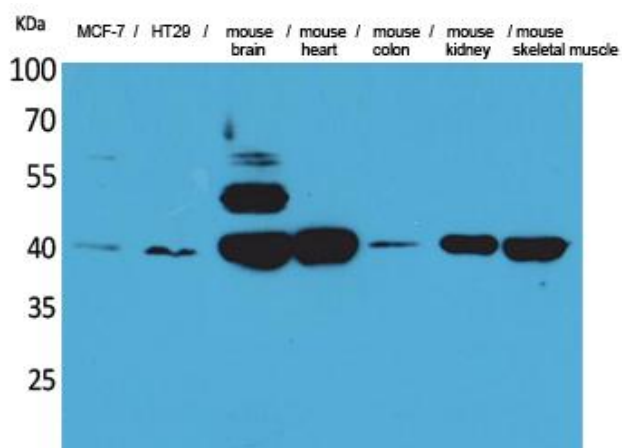
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western Blot analysis of various cells using IDH3A Monoclonal Antibody