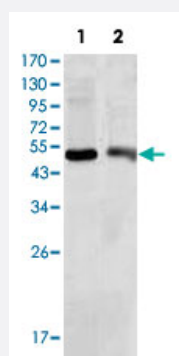


BDH1 monoclonal antibody, clone 1A5

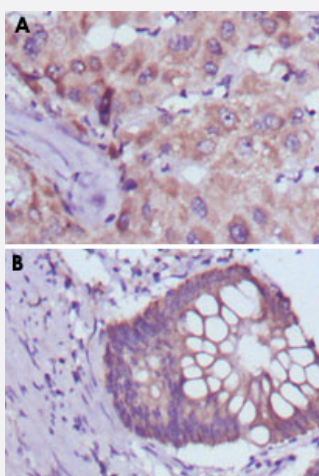
Catalog # MAB10451 Size 100 uL

Applications



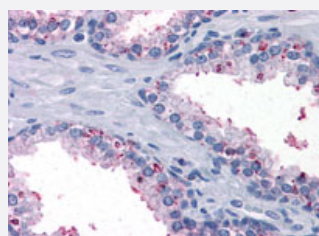
Western Blot (Cell lysate)

Western blot analysis of BDH1 monoclonal antibody, clone 1A5 (Cat # MAB10451) against HepG2 (1) and NIH/3T3 (2) cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human liver cancer (A) and colorectal cancer tissue (B) using BDH1 monoclonal antibody, clone 1A5 (Cat # MAB10451) with DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human prostate tissue using BDH1 monoclonal antibody, clone 1A5 (Cat # MAB10451).

Specification

| | |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | Mouse monoclonal antibody raised against recombinant BDH1. |
| Immunogen | Recombinant protein corresponding to human BDH1. |
| Host | Mouse |
| Theoretical MW (kDa) | 38 |
| Reactivity | Human, Mouse |
| Form | Liquid |
| Isotype | IgG1 |
| Recommend Usage | Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) ELISA (1:10000) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In ascitic (0.03% sodium azide) |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Applications

- Western Blot (Cell lysate)

Western blot analysis of BDH1 monoclonal antibody, clone 1A5 (Cat # MAB10451) against HepG2 (1) and NIH/3T3 (2) cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human liver cancer (A) and colorectal cancer tissue (B) using BDH1 monoclonal antibody, clone 1A5 (Cat # MAB10451) with DAB staining.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human prostate tissue using BDH1 monoclonal antibody, clone 1A5 (Cat # MAB10451).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — BDH1

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID | 622 |
| Gene Name | BDH1 |
| Gene Alias | BDH, MGC2723, MGC4347, MGC9788, SDR9C1 |
| Gene Description | 3-hydroxybutyrate dehydrogenase, type 1 |
| Omim ID | 603063 |
| Gene Ontology | Hyperlink |
| Gene Summary | <p>This gene encodes a member of the short-chain dehydrogenase/reductase gene family. The encoded protein forms a homotetrameric lipid-requiring enzyme of the mitochondrial membrane and has a specific requirement for phosphatidylcholine for optimal enzymatic activity. The encoded protein catalyzes the interconversion of acetoacetate and (R)-3-hydroxybutyrate, the two major ketone bodies produced during fatty acid catabolism. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq]</p> |
| Other Designations | (R)-3-hydroxybutyrate dehydrogenase 3-hydroxybutyrate dehydrogenase 3-hydroxybutyrate dehydrogenase (heart, mitochondrial) D-beta-hydroxybutyrate dehydrogenase, mitochondrial short chain dehydrogenase/reductase family 9C, member 1 |

Pathway

- [Butanoate metabolism](#)
- [Metabolic pathways](#)
- [Synthesis and degradation of ketone bodies](#)