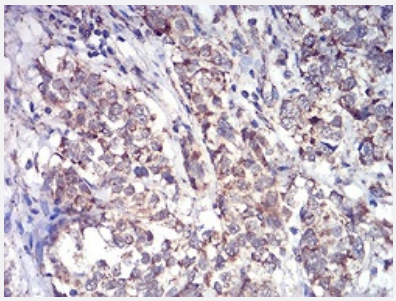
ALDH6A1 monoclonal antibody, clone 6H9B7

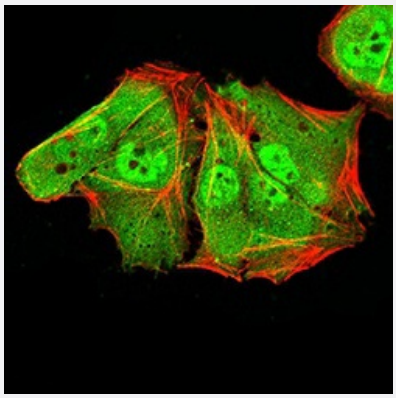
Catalog # MAB17197 Size 100 ug

Applications



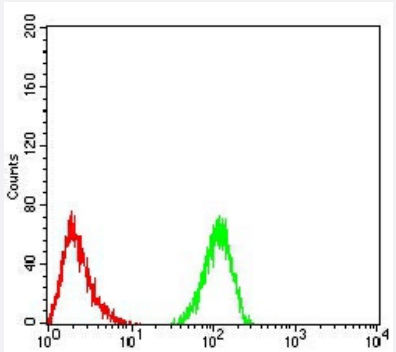
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded bladder cancer tissues with ALDH6A1 monoclonal antibody.



Immunocytochemistry

Immunocytochemical staining of HeLa cells with ALDH6A1 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor- 555 phalloidin (red).



Flow Cytometry

Flow cytometric analysis of HeLa cells with ALDH6A1 monoclonal antibody (green) and negative control (red).

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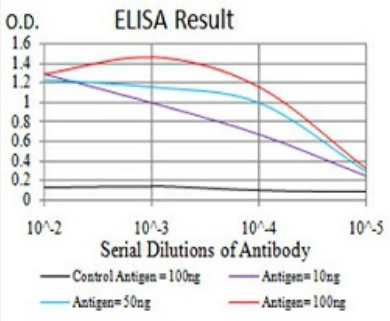
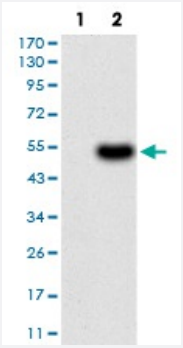


Enzyme-linked Immunoabsorbent Assay

ELISA analysis of ALDH6A1 monoclonal antibody, clone 6H9B7.



Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) ALDH6A1-hIgGFc transfected HEK293 cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human ALDH6A1.
Immunogen	Recombinant protein corresponding to amino acid 1-195 of human ALDH6A1 from *E. coli*.
Host	Mouse
Theoretical MW (kDa)	57.8kDa
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunocytochemistry (1:200-1:1000) Flow Cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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

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- Immunocytochemistry

  Immunocytochemical staining of HeLa cells with ALDH6A1 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor- 555 phalloidin (red).

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  Western Blot analysis of (1) HEK293 cells, (2) ALDH6A1-hIgGFc transfected HEK293 cell lysate.

Gene Info — ALDH6A1

Entrez GeneID	4329
Gene Name	ALDH6A1
Gene Alias	MGC40271, MMSADHA, MMSDH
Gene Description	aldehyde dehydrogenase 6 family, member A1
Omim ID	603178
Gene Ontology	Hyperlink
Gene Summary	This protein belongs to the aldehyde dehydrogenases family of proteins. This enzyme plays a role in the valine and pyrimidine catabolic pathways. The product of this gene, a mitochondrial methyl malonate semialdehyde dehydrogenase, catalyzes the irreversible oxidative decarboxylation of m alonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Methylmalonate semial dehyde dehydrogenase deficiency is characterized by elevated beta-alanine, 3-hydroxypropionic acid, and both isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids. [provided by RefSeq

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Other Designations	aldehyde dehydrogenase 6A1|mitochondrial acylating methylmalonate-semialdehyde dehydrogenase

Pathway

- Inositol phosphate metabolism
- Metabolic pathways
- Propanoate metabolism
- Valine

Disease

- Tobacco Use Disorder

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