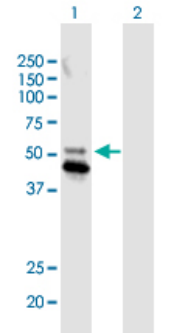
CX Grade

IDH2 monoclonal antibody (M01J), clone 5F11

Catalog # H00003418-M01J Size 100 ug

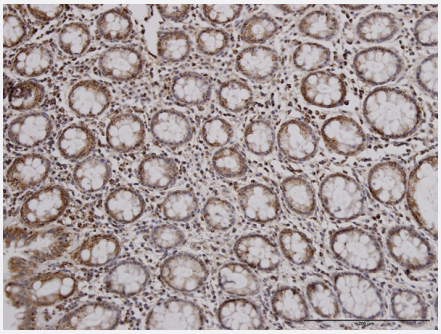
Applications



Western Blot (Transfected lysate)

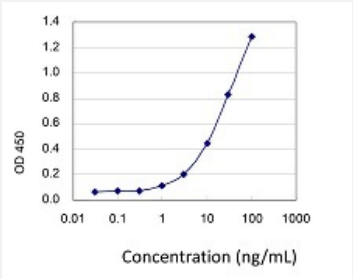
Western Blot analysis of IDH2 expression in transfected 293T cell line by IDH2 monoclonal antibody (M01J), clone 5F11.

Lane 1: IDH2 transfected lysate (Predicted MW: 50.9 KDa).
Lane 2: Non-transfected lysate.



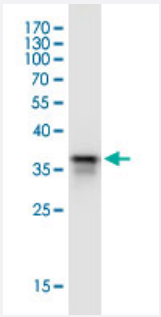
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to IDH2 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged IDH2 is 0.3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.52 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant IDH2. This product is belong to Cell Culture Grade Antibody (CX Grade).
Immunogen	IDH2 (NP_002159, 354 a.a. ~ 451 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	HYREHQKGRPTSTNPIASIFAWTRGLEHRGKLDGNQDLIRFAQMLEKVCVETVESGAMTKDLAGCI HGLSNVKLNEHFLNTTDFLDTIKSNLDRALGR
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (97)
Preparation Method	Cell Culture Production
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

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  Lane 2: Non-transfected lysate.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

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  Protocol Download

- ELISA

Gene Info — IDH2

Entrez GeneID	3418
GeneBank Accession#	NM_002168
Protein Accession#	NP_002159
Gene Name	IDH2
Gene Alias	ICD-M, IDH, IDHM, IDP, IDPM, mNADP-IDH
Gene Description	isocitrate dehydrogenase 2 (NADP+), mitochondrial
Omim ID	147650
Gene Ontology	Hyperlink

Gene Summary	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. [provided by RefSeq
Other Designations	NADP+-specific ICDH|isocitrate dehydrogenase, mitochondrial|oxalosuccinate decarboxylase

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of alkaloids derived from ornithine
- Biosynthesis of alkaloids derived from shikimate pathway
- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of phenylpropanoids
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Citrate cycle (TCA cycle)
- Glutathione metabolism
- Metabolic pathways
- Reductive carboxylate cycle (CO2 fixation)

Disease

- Astrocytoma
- Blast Crisis
- Brain Neoplasms
- Chronic Disease
- Disease Progression

- Glioma
- Hematologic Diseases
- Leukemia
- Lung Neoplasms
- Melanoma
- Myelodysplastic Syndromes
- Myeloproliferative Disorders
- Neoplasm Metastasis
- Oligodendroglioma
- Polycythemia Vera
- Primary Myelofibrosis
- Recurrence
- Skin Neoplasms
- Thrombocythemia