

Mouse IDH1/IDH Monoclonal Antibody | anti-IDH1 antibody

IDH1/IDH Mouse anti-Human Monoclonal (C13) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA21372	Mouse	Mouse, Pig, Human	Immunocytochemistry, Immunohistochemistry, Western Blot

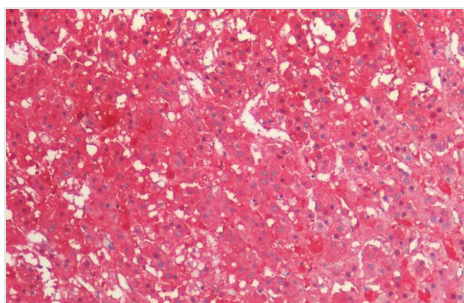
PRODUCT SYNONYMS

IDH1/IDH; Monoclonal Antibody; IDH1/IDH Mouse anti-Human Monoclonal (C13) Antibody; PathPlus IDH1/IDH Antibody (clone C13); IDH1; IDCD; IDP; IDPC; PICD; NADP(+)-specific ICDH; IDH; Oxalosuccinate decarboxylase; anti-IDH1 antibody

PRODUCT SPECIFICATIONS

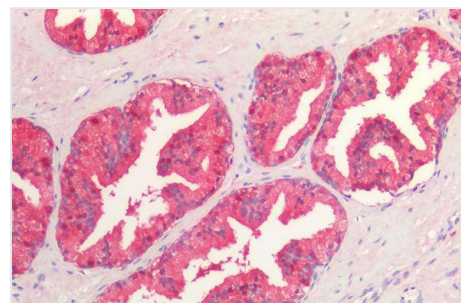
Host	Mouse
Reactivity	Mouse, Pig, Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	C13
Specificity	The antibody is a mouse monoclonal antibody raised against IDH1.
Purity/Purification	Protein A + Protein G affinity chromatography
Form/Format	0.01 M PBS, pH7.4, 0.05% ProClin 300, 50% Glycerol
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-IDH1 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Target	Human IDH1/IDH
Immunogen	Recombinant IDH1 (Ala74-Ile333) expressed in E.coli.
Conjugation	Unconjugated
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months.

IMAGES



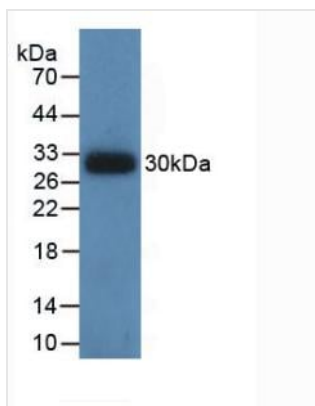
IHC (Immunohistochemistry)

IDH1/IDH Antibody-Human Adrenal: Formalin-Fixed, Paraffin-Embedded (FFPE)

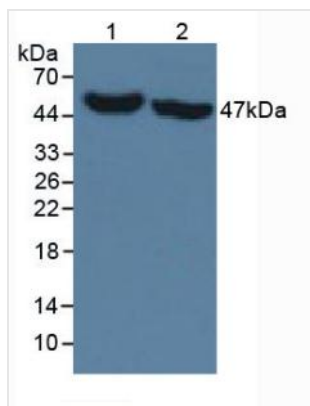


IHC (Immunohistochemistry)

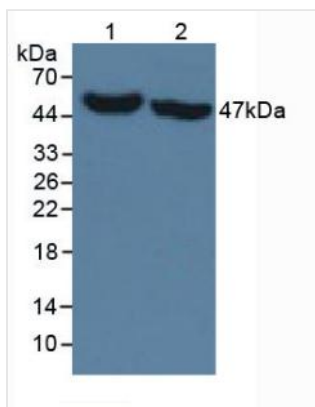
IDH1/IDH Antibody-Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)



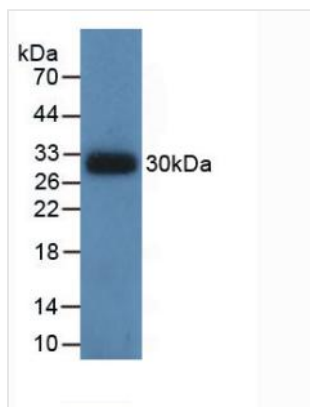
WB (Western Blot)
IDH1/IDH Antibody-Western Blot; Sample: Recombinant IDH1, Human.



WB (Western Blot)
IDH1/IDH Antibody-Western Blot; Sample: Lane1: Human Liver Tissue; Lane2: Porcine Liver Tissue.



WB (Western Blot)
IDH1/IDH Antibody-Western Blot; Sample: Lane1: Human Liver Tissue; Lane2: Porcine Liver Tissue.



WB (Western Blot)
IDH1/IDH Antibody-Western Blot; Sample: Recombinant IDH1, Human.

ADDITIONAL INFORMATION

Related Product Information for anti-IDH1 antibody	IDH antibody is an unconjugated mouse monoclonal antibody to IDH (IDH1) from human. It is reactive with human, mouse and pig. Validated for ICC, IHC and WB. IDH1 is a nuclear enzyme found in cells throughout the body with highest expression in male reproductive tissues, the adrenal gland, liver, breast, the gastrointestinal tract, endometrium and adipose tissue. It is functionally involved in DNA repair, metabolism and epigenetic regulation. IDH1 is frequently mutated in specific types of cancer; for example, the IDH1 mutation R132H is common in secondary glioblastomas, and antibodies specific to this mutation are used in the identification of astrocytomas and oligodendroglial tumors where the mutation has a 70% rate of occurrence. R132H mutation IDH1 antibodies distinguish astrocytoma from primary glioblastomas, and differentiate diffuse astrocytoma grade II from ependymoma or pilocytic astrocytoma. They also stain positively in around 12% of acute myeloid leukemia. In addition, antibodies that recognize wild-type IDH1 may be used as a control alongside mutation-specific antibodies in the differential identification of secondary glioblastomas (mutation positive) from primary glioblastomas (majority are mutation negative).
References	Oncogene. 2018. 37, 1949 -1960, DOI: 10.1038/s41388-017-0077-z; Curr Neurol Neurosci Rep. 2013 May;13(5):345, PMID: 23532369; PLoS One. 2017 Jan 4;12(1):e0169038, PMID: 28052098; Cell Rep. 2018 Oct 23;25(4):1018-1026.e4, PMID: 30355481; Am J Clin Pathol. 2011 Jan;135(1):35-45, PMID: 21173122;

NCBI AND UNIPROT INFORMATION

NCBI GI #	28178825
NCBI GeneID	3417
NCBI Accession #	NP_005887.2
NCBI GenBank Nucleotide #	NM_005896

UniProt Accession #	O75874; Q567U4; Q6FHQ6; Q7Z3V0; Q93090; Q9NTJ9; Q9UKW8
Molecular Weight	46,659 Da
NCBI Official Full Name	isocitrate dehydrogenase
NCBI Official Synonym Full Names	isocitrate dehydrogenase 1 (NADP+), soluble
NCBI Official Symbol	IDH1
NCBI Official Synonym Symbols	IDH; IDP; IDCD; IDPC; PICD; HEL-216; HEL-S-26
NCBI Protein Information	isocitrate dehydrogenase [NADP] cytoplasmic; isocitrate dehydrogenase [NADP] cytoplasmic; NADP(+)-specific ICDH; oxalosuccinate decarboxylase; epididymis luminal protein 216; epididymis secretory protein Li 26; NADP-dependent isocitrate dehydrogenase, cyt
UniProt Protein Name	Isocitrate dehydrogenase [NADP] cytoplasmic
UniProt Gene Name	IDH1
UniProt Synonym Gene Names	PICD; IDH
UniProt Entry Name	IDHC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/idh1-idh-antibody-clone-c13-immunocytochemistry-immunohistochemistry-western-blot-elisa/21372>