Datasheet for ABIN7126537

Recombinant anti-IDH1 antibody (AA 281-414)

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Overview

Quantity:	100 µg
Target:	IDH1
Binding Specificity:	AA 281-414
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This IDH1 antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant fragment of human IDH1 protein (around aa 281-414) (exact sequence is proprietary)
Isotype:	IgG
Specificity:	IDH1 R132H antibody binds to IDH1-mutated protein, but does not bind the wild-type IDH1 protein. IDH1 R132H point mutations are frequently seen in World Health Organization grade II and III gliomas and are believed to constitute an early step in tumorigenesis. IDH1 R132H can be used as a diagnostic marker to help differentiate infiltrating gliomas from gliosis, and as a prognostic marker for gliomas and secondary glioblastoma multiforme. IDH1 R132H antibody shows strong cytoplasmic staining and weaker nuclear staining in tumor cells with the R132H-mutated peptide. Diffuse staining of the fibrillary tumor matrix is also seen.

Product Details

Cross-Reactivity (Details):	Human.
Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	IDH1
Alternative Name:	IDH1 (IDH1 Products)
Background:	Cytosolic NADP-isocitrate dehydrogenase, Epididymis luminal protein 216, Epididymis secretory protein Li 26, HEL-216, HEL-S-26, ICDH, IDCD, IDH1, IDP, IDPC, Isocitrate dehydrogenase 1 (NADP+) soluble, NADP dependent isocitrate dehydrogenase peroxisomal, NADP(+)-specific ICDH, Oxalosuccinate decarboxylase, PICD,IDH1-R132H (Isocitrate Dehydrogenase) Cellular localisation: Cytoplasm. Nucleus.
Molecular Weight:	45-47kDa
Gene ID:	3417, 593422
UniProt:	O75874
Pathways:	Warburg Effect

Application Details

Application Notes:	Known_Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined. Positive_Control: HepG2, HeLa, HT29 or MCF7cells. Humanbreast, colon or prostate carcinoma.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-

Handling

	hazardous.
Expiry Date:	24 months