

FUJIFILM**Wako**

< for Research Use Only >

Code No. 013-26851 (100 μ g)**Anti IDH1-R132H, Monoclonal Antibody (HMab-2)**
抗 IDH1-R132H, モノクローナル抗体 (HMab-2)

Isocitrate dehydrogenase 1 and 2 (IDH1, IDH2) catalyze the oxidative decarboxylation of isocitrate to α -ketoglutarate, thereby reducing NADP⁺ to NADPH. These are located in cytoplasm (IDH1) and in mitochondria (IDH2), respectively. It is reported that the IDH1 and IDH2 mutations occur in some gliomas, acute myeloid leukemias, intrahepatic cholangiocarcinomas and cartilaginous tumors.

The most frequent mutations are restricted to a single residue of *IDHs* gene, corresponding to the arginine at 132 residue (R132) of IDH1 and at 172 residue (R172) of IDH2.

There are 6 types of mutations for IDH1, the majority is leading to Arg $\rightarrow$ His substitution and others are Arg $\rightarrow$ Ser, Cys, Gly, Val and Leu.

Anti IDH1-R132H, monoclonal antibody (HMab-2) is established against the synthetic peptide of IDH1-R132H. This antibody have high specificity to IDH1-R132H, doesn't react with wild type IDH1 and other IDH1 mutants (WB).

This product is for laboratory use only ; use in any such application is the responsibility of the users.

Description

[Reactivity] Reacts with human IDH1-R132H
[Species cross reactivity] Human
[Clone No.] HMab-2
[Host] Mouse
[Isotype] IgG1 $\cdot$ κ
[Concentration] Indicated on the label.
[Formulation] PBS (pH 7.4) containing sodium azide

Application

Western Blot 1 μ g/mL $\sim$
Immunohistochemistry 1 μ g/mL $\sim$
ELISA 1 μ g/mL $\sim$

*Please optimize the most appropriate concentration for your analysis conditions and samples.

Storage

Store at -20 $^{\circ}$ C.
Avoid repeated freeze and thaw.

Package100 μ g

- 1/2 -

References

- 1) Fujii, Y. *et al.*, *BBRC.*, **466** (4), 733-739 (2015).
- 2) Yamamichi, A. *et al.*, *Sci. Technol. Adv. Mater.*, **17**, 618-625 (2016).

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- 2/2 -