

MONOCLONAL ANTIBODIES IN IMMUNODIAGNOSIS AND IMMUNOTHERAPY
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Monoclonal Antibodies

Monoclonal Antibody RcMab-1 Against IDH1

Antigen Used for Immunization

Full-length IDH1 recombinant proteins expressed in *Escherichia coli*.

Method of Immunization

WKY/Izm rats were immunized by injecting 170 µg of full-length IDH1 recombinant protein together with Freund's complete adjuvant into footpad.

Parental Cell Line Used for Fusion

Mouse myeloma Sp2/0.

Selection and Cloning Procedure

The culture supernatants were screened using ELISA for binding to IDH1 recombinant protein.

Heavy and Light Chains of Immunoglobulin

IgG_{2a}, kappa.

Specificity

Western blot analysis showed that RcMab-1 reacted with IDH1, but not with IDH2 proteins.

Specific Antigen Identified

IDH1.

Availability

Tissue culture supernatant	Yes ✓	No
Ascitic fluid	Yes ✓	No
Hybridoma cells	Yes	No ✓

References

Kaneko MK, Ogasawara S, and Kato Y: Establishment of a novel multi-specific monoclonal antibody MsMab-1 recognizing both IDH1 and IDH2 mutations. *Tohoku J Exp Med* 2013;230(2).
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