

MONOCLONAL ANTIBODIES IN IMMUNODIAGNOSIS AND IMMUNOTHERAPY  
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# Monoclonal Antibodies

## Monoclonal Antibody MsMab-1 Against Mutated IDH1 and IDH2

### Antigen Used for Immunization

Synthetic peptides of CCGVKPIIIGGHAYGDQYRA.

### Method of Immunization

BDF1 mice were immunized by injecting 80 µg of synthetic peptides of CCGVKPIIIGGHAYGDQYRA conjugated with KLH 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-R132G and IDH1 wild-type peptides conjugated with BSA.

### Heavy and Light Chains of Immunoglobulin

IgG<sub>2a</sub>, kappa.

### Specificity

Western blot analysis showed that MsMab-1 reacted with the IDH1-R132G, IDH1-R132S, IDH1-R132H, IDH2-R172S, IDH2-R172G, and IDH2-R172M recombinant proteins, but not with IDH1/2-WTs.

### Specific Antigen Identified

IDH1-R132G.

### Availability

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

### Reference

Ogasawara S, Kaneko MK, Tsujimoto Y, Liu X, and Kato Y: A multi-specific monoclonal antibody MsMab-2 recognizes IDH1-R132L and IDH2-R172M mutations. *Monoclon Antib Immunodiagn Immunother* 2013;32(6) ■■■-■■■.

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