

MONOCLONAL ANTIBODIES IN IMMUNODIAGNOSIS AND IMMUNOTHERAPY  
Volume 32, Number 6, 2013  
© Mary Ann Liebert, Inc.  
DOI: 10.1089/mab.2013.0054

## Monoclonal Antibodies

### Monoclonal Antibody MsMab-2 Against Mutated IDH1 and IDH2

#### Antigen Used for Immunization

Synthetic peptides of CCGVKPIIIGLHAYGDQYRA.

#### Method of Immunization

WKY/Izm rats were immunized by injecting 170 µg of synthetic peptides of CCGVKPIIIGLHAYGDQYRA 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-R132L 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-2 reacted with the IDH1-R132L and IDH2-R172M recombinant proteins, but not with IDH1/2-WTs.

#### Specific Antigen Identified

IDH1-R132L.

#### 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) ■■■■-■■■■.

#### Address correspondence to:

Dr. Yukinari Kato  
Department of Regional Innovation  
Tohoku University Graduate School of Medicine  
2-1 Seiryomachi, Aoba-ku  
Sendai, Miyagi 980-8575  
Japan  
Telephone: +81-22-717-8207  
Fax: +81-22-717-8207  
E-mail: yukinari-k@bea.hi-ho.ne.jp