## PRODUCT SPECIFICATION

**HYB 332-01 Anti ΔLys β2-microglobulin**  
*Mouse monoclonal antibody*

### Article No.
- 55505 (0.2 mL), 101077 (1.0 mL)

### Product Name
- HYB 332-01 Anti ΔLys β2-microglobulin

### Clone
- 10B5

### Subclass
- IgG1/kappa

### Description
- **Preparation:** Protein-A purified
- **Concentration:** 1 mg/mL ± 10%, based on A<sub>280</sub>. See Certificate of Analysis for details.
- **Solvent:** PBS, pH 7.2 – 7.4
- **Storage:** -18 ºC or colder

### Antigen
- DesLys-58 β<sub>2</sub>-microglobulin (ΔLys β<sub>2</sub>-microglobulin or ΔK58- β<sub>2</sub>M) is a modified form of β<sub>2</sub>-microglobulin lacking the lysine residue at position 58. This modified form has been shown to be associated with chronic inflammatory conditions (1) and may be implicated in dialysis-related amyloidosis (2). In contrast to native β<sub>2</sub>M, ΔK58- β<sub>2</sub>M binds to a hitherto unknown cell surface receptor independent of classical MHC class I molecules (3).

### Immunogen
- Peptide conjugated to S3. The synthetic peptide corresponds to amino acid residues 49-57 of the β<sub>2</sub>-microglobulin with an N-terminal cysteine residue added: H-CVEHSDLFS-OH

### Specificity
- The antibody is specific for desLys-58 β<sub>2</sub>-microglobulin (ΔK58- β<sub>2</sub>M).

### Epitope Specificity
- This monoclonal antibody as well the other monoclonal antibodies developed in this series all have the same epitope specificity.

### Reactivity
- HYB 332-01 Anti ΔLys β<sub>2</sub>-microglobulin reacts with ΔK58- β<sub>2</sub>M in indirect ELISA and it reacts with ΔK58- β<sub>2</sub>M in a capture ELISA using a polyclonal anti-β<sub>2</sub>-microglobulin antibody to capture native β<sub>2</sub>M or the ΔΔK58- β<sub>2</sub>M (3, 6). In Western blot, HYB 332-01 Anti ΔLys β<sub>2</sub>-microglobulin reacts only with ΔK58- β<sub>2</sub>M and not with native β<sub>2</sub>M (3).

### Culture Medium
- Dulbecco’s modified Eagle’s medium with 10% fetal calf serum.

### Fusion Partner
- X63-Ag8.653.

### Immunization
- Female NMRI mice were immunized i.p. with immunogen.

### Application

<table>
<thead>
<tr>
<th>Method</th>
<th>Usability</th>
<th>References</th>
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<tbody>
<tr>
<td>ELISA</td>
<td>yes</td>
<td>4-5</td>
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<tr>
<td>FACS</td>
<td>yes</td>
<td>3, 6</td>
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<td>3</td>
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<tr>
<td>Immunofluorescence</td>
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HYB 332-01 Anti ΔLys β2-microglobulin
mouse monoclonal antibody

References


Conditions

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