**PRODUCT SPECIFICATION**

**HYB 332-01 Anti ΔLys β2-microglobulin**

*Mouse monoclonal antibody*

<table>
<thead>
<tr>
<th>Article No.</th>
<th>55505</th>
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<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>HYB 332-01 Anti ΔLys β2-microglobulin</td>
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<tr>
<td><strong>Clone</strong></td>
<td>10B5</td>
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<tr>
<td><strong>Subclass</strong></td>
<td>IgG1/kappa</td>
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**Description**
- **Preparation:** Protein-A purified
- **Content:** 1 mg/mL, based on E(1%)=14.0 at A280
- **Solvent:** 0.01 M PBS, pH 7.4, with 0.5 M NaCl
- **Storage:** -18 ºC or colder

**Antigen**
DesLys-58 β2-microglobulin (ΔLys β2-microglobulin or ΔK58- β2M) is a modified form of β2-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 β2M, ΔK58- β2M 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 β2-microglobulin with an N-terminal cysteine residue added:
H-CVEHSDLSFS-OH

**Specificity**
The antibody is specific for desLys-58 β2-microglobulin (ΔK58- β2M).

**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 β2-microglobulin reacts with ΔK58- β2M in indirect ELISA and it reacts with ΔK58- β2M in a capture ELISA using a polyclonal anti-β2-microglobulin antibody to capture native β2M or the ΔΔK58- β2M (3, 6). In western blot, HYB 332-01 Anti ΔLys β2-microglobulin reacts only with ΔK58- β2M and not with native β2M [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**

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<thead>
<tr>
<th>Method</th>
<th>Usability</th>
<th>References</th>
</tr>
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<tbody>
<tr>
<td>ELISA</td>
<td>yes</td>
<td>4-5, 3, 6</td>
</tr>
<tr>
<td>FACS</td>
<td>yes</td>
<td>3</td>
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<tr>
<td>Immunoblotting</td>
<td>yes</td>
<td></td>
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<tr>
<td>Immunofluorescence</td>
<td>nd.</td>
<td>3</td>
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References


Conditions

For research use only. Not for use in diagnostic procedures.

The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.