## Anti-Human Tamm-Horsfall Protein Monoclonal Antibody

<table>
<thead>
<tr>
<th>Catalogue#</th>
<th>Format</th>
<th>Size</th>
<th>Concentration</th>
<th>Isotype Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL1032A</td>
<td>Ascites</td>
<td>1.0 ml</td>
<td>NA</td>
<td>CLCMG2B00</td>
</tr>
<tr>
<td>CL1032AP</td>
<td>Purified</td>
<td>250µg</td>
<td>1.0 mg/ml</td>
<td>CLCMG2B00</td>
</tr>
<tr>
<td>CL1032F</td>
<td>FITC</td>
<td>100µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG2B01</td>
</tr>
<tr>
<td>CL1032HP</td>
<td>HRPO</td>
<td>100µg</td>
<td>1.0 mg/ml</td>
<td>N/A</td>
</tr>
<tr>
<td>CL1032G/-2</td>
<td>Gold</td>
<td>10 nm Gold</td>
<td>0.5 ml/1.0 ml</td>
<td>OD3</td>
</tr>
</tbody>
</table>

**Isotype:** Mouse IgG2b

**DESCRIPTION:**

Cedarlane anti-human Tamm-Horsfall protein (THP) is a monoclonal antibody which reacts with an epitope of the urinary mucoprotein. Tamm-Horsfall protein is a glycoprotein of approximately 80 kDa containing up to 25% carbohydrate by weight. It exists as a high molecular weight polymer in urine and approximately 50 mg of the THP are excreted per day by adult humans. THP is produced by the epithelial cells lining the thick ascending loop of Henle and distal convoluted tubules of the kidney. THP is also the primary constituent of renal tubular casts and THP aggregation has been implicated as a factor in the pathogenesis of acute renal failure by causing tubular obstruction. Antibody to THP is present in the serum of patients with pyelonephritis and reflux uropathy.

This monoclonal antibody has shown good localization to the distal tubule and collecting duct as well as to large deposits of Tamm-Horsfall protein which has clogged peri-pelvic veins. This antibody also works with canine.

**PRESENTATION:**

- **Ascites:** Lyophilized
- **Purified:** Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
- **FITC:** FITC conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.
- **HRPO:** HRPO conjugated IgG buffered in PBS with 40% glycerol (v/v) and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. No NaN₃ with other preservatives.
- **Gold:** 10 nm gold conjugated IgG buffered in 20mM Tris (pH 8.0), 150mM NaCl, 20% glycerol (v/v), 1% BSA.

**STORAGE/STABILITY:**

Store **Ascites** at -20°C. For all other formats, store at 4°C. DO NOT FREEZE **Gold** conjugates. For long term storage (Purified, FITC, HRPO), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.
SPECIFICATIONS:

Clone: 10.32

Hybridoma Production:

Immunized Strain: BALB/C
Immunogen: Human tamm-horsfall protein
Fusion Partner: SP2/0 myeloma

APPLICATIONS:

This antibody has been tested enzyme-linked immunosorbent assay (ELISA), and by indirect immunoperoxidase staining on formalin fixed paraffin embedded human kidney sections. Recommended starting dilutions are 1:2000 – 1:6000 for ELISA and 20 μg/mL for IHC.

REFERENCES:


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