Collagen IV EIA, human urine
Kidney Injury Biomarker
FOR RESEARCH USE ONLY
Not for use in Diagnostic Procedures

Cat. No.: BIO83
Tests: 96
Method: ELISA
Range: 0.8 - 50 μg/L
Sensitivity: 0.8 μg/L
Incubation time: 25 hours
Sample volume: 50 μL
Sample type: Urine
Sample storage: Collagen IV can precipitate out of urine, resulting in falsely low results. For this reason the use of Collagen IV sample collection tubes which ensure accurate reproducible measurement is recommended. After collection in such tubes, samples can be stored at 2-8 °C for up to one week or at -20 °C for nine months. Avoid repeated freeze-thawing of samples.

Reference values:
It is recommended that each laboratory establish its own reference range.

<table>
<thead>
<tr>
<th>Sample Collection</th>
<th>Age</th>
<th>Collagen IV (μg/g Creatinine)</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early morning urine</td>
<td>30-39 years</td>
<td>&lt; 4.0</td>
<td>122</td>
</tr>
<tr>
<td></td>
<td>&gt; 40 years</td>
<td>&lt; 4.9</td>
<td>64</td>
</tr>
<tr>
<td>Spot urine</td>
<td>&lt; 21 years</td>
<td>&lt; 7.3</td>
<td>390</td>
</tr>
</tbody>
</table>

Species: Human
Cross reaction: Cross reactivity is less than 2% with Collagen II and less than 0.5% with other forms of collagen.

Interference:
No significant interference has been observed in this assay with creatinine, hemolytic or icteric samples.
- Creatinine: Less than 10% interference up to 3 g/L in sample.
- Hemolysis: Less than 10% interference up to 4.8 g/L hemoglobin.
- Icterus: Less than 10% interference up to 0.2 g/L bilirubin.

Intended research use:
- Studies indicate that glomular basement membrane expansion can occur with kidney damage. Collagen IV, a type of collagen found primarily in the basement membrane, has been found to be increased in association with this expansion. Studies also show that this increase in kidney Collagen IV directly correlates with an increase in urine Collagen IV.
- For research studies related to chronic kidney injury. Assay is complimentary to α-GST & π-GST EIAs, making it well-suited for a biomarker panel researching kidney injury.

For more information please contact:

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ML-00-00226Rev01