

## DESCRIPTION

<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat $\alpha_2\mu$ -Globulin in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 129736
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Rat urine-derived $\alpha_2\mu$ -Globulin
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

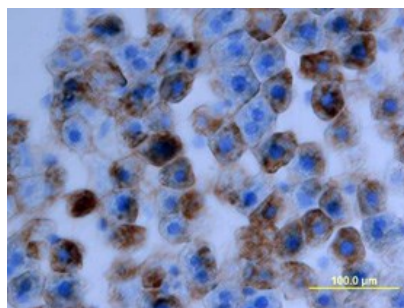
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 $\mu$ g/mL	Rat $\alpha_2\mu$ -Globulin
<b>Immunohistochemistry</b>	8-25 $\mu$ g/mL	See Below

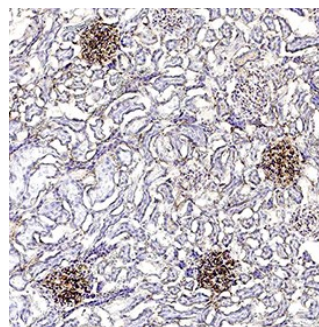
## DATA

### Immunohistochemistry



**$\alpha_2\mu$ -Globulin in Rat Liver.**  $\alpha_2\mu$ -Globulin was detected in perfusion fixed frozen sections of rat liver using Mouse Anti-Rat  $\alpha_2\mu$ -Globulin Biotinylated Monoclonal Antibody (Catalog # BAM586) at 25  $\mu$ g/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

### Immunohistochemistry



**$\alpha_2\mu$ -Globulin in Rat Kidney.**  $\alpha_2\mu$ -Globulin was detected in immersion fixed paraffin-embedded sections of rat kidney using Mouse Anti-Rat  $\alpha_2\mu$ -Globulin Biotinylated Monoclonal Antibody (Catalog # BAM586) at 15  $\mu$ g/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to glomeruli. Staining was performed using our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

$\alpha_2\mu$ -Globulin, also known as PGCL1, is a member of the Lipocalin family that show 87-98% amino acid sequence identity.  $\alpha_2\mu$ -Globulin is the major urinary protein excreted by adult male rat. It is expressed at highest levels in male liver and coagulate glands.