

## Murine Anti-Tissue Plasminogen Activator

### Clone GMA-043

Tissue plasminogen activator (Mr 72,000) has 5 domains of four different types: a fibronectin-type finger domain, a growth factor-type domain, two kringle domains, and a protease domain in the carboxy-terminal region. Tissue plasminogen activator cleaves the R561-V562 peptide bond of plasminogen converting it to plasmin. GMA-043 binds tissue plasminogen activator (tPA) in solid-phase ELISA and Western blots.

### Description

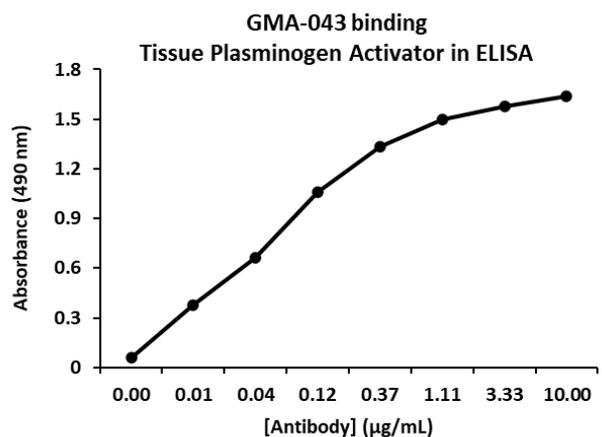
<b>Antibody Source:</b>	mouse monoclonal, IgG <sub>1</sub>
<b>Antigen Species Bound:</b>	human
<b>Specificity:</b>	tissue plasminogen activator
<b>Immunogen:</b>	human tissue plasminogen activator

### Formulation and Storage

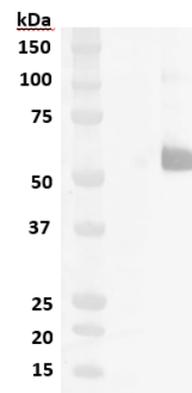
<b>Purity:</b>	Purified by protein G affinity chromatography from serum-free cell culture supernatant.
<b>Product Formulation:</b>	Lyophilized from a $\geq 1$ mg/ml solution in 20 mM NaH <sub>2</sub> PO <sub>4</sub> 0.15 M NaCl, 1.0% (w/v) mannitol, pH 7.4. Concentration determined by absorbance measurement at 280 nm and using an extinction coefficient of 1.4 ( $\epsilon_{0.1\%}$ ).
<b>Reconstitution:</b>	Reconstitute with deionized water.
<b>Storage:</b>	Store lyophilized or reconstituted and aliquoted material at -20°C for prolonged periods. Avoid freeze-thaw cycles. Alternatively, add 0.02% (w/v) sodium azide to reconstituted solution and store at 4°C.
<b>Country of Origin:</b>	USA
<b>Size Options:</b>	0.1 mg or 0.5 mg

### Applications

<b>Working Concentration:</b>	Approximately 1-5 $\mu$ g/ml. Researcher should titer antibody in specific assay.
<b>ELISA:</b>	Binds human tPA.
<b>Immunoblotting:</b>	Binds human tPA under reduced and non-reduced conditions.



### Western blot of non-reduced TPA, 1 $\mu$ g/ml GMA-043



### References

- [1] G. Tsurupa, S. Yakovlev, P. McKee, L. Medved. Non-Covalent Interaction of  $\alpha$ 2-Antiplasmin with Fibrin(ogen): Localization of  $\alpha$ 2-Antiplasmin Binding Sites. (2010). *Biochemistry*. 49:7643-7651.