

# Anti-Human $\alpha$ 2-Macroglobulin (Goat) Affinity-Purified IgG, 0.50 mg



Ref#: GAA2M-AP  
Lot#: xxxxxx  
Exp. Date: xxxx-xx

Store at -10 to -20°C

For Research Use Only  
Not for Use in Diagnostic Procedures  
For *in vitro* use only

<b>Immunogen:</b>	Human $\alpha$ 2-Macroglobulin (from human plasma)
<b>Format:</b>	Affinity-purified IgG in 10 mM HEPES, pH 7.4, 150 mM NaCl, 50% (v/v) glycerol
<b>Host:</b>	Goat
<b>Storage:</b>	Store between -10 and -20°C. Vial should be tightly capped. Do not store in frost-free freezers. Allow product to warm to room temperature and gently mix before use
<b>Total Protein:</b>	0.50 mg
<b>Applications:</b>	Suitable as a source of enriched antibodies For Research Use Only. Not for Use in Diagnostic Procedures. For <i>in vitro</i> use only
<b>Volume:</b>	1 vial containing 0.250 mL anti-human, affinity purified IgG
<b>Concentration:</b>	2 mg/mL affinity-purified IgG by absorbance; Extinction Coefficient $E^{1\%}_{280} = 13.4$
<b>Specificity:</b>	Specificity demonstrated by immunoelectrophoresis and ELISA methods
<b>Neutralizing Activity:</b>	Not Determined

$\alpha$ 2-Macroglobulin with a molecular weight of 718 kDa is found in normal plasma at a concentration of 220-230 mg/dL.  $\alpha$ 2-Macroglobulin and protease/ $\alpha$ 2-Macroglobulin complexes are increased in patients with sepsis, emphysema, rheumatoid arthritis, and other inflammatory diseases. It has been implicated as a genetic risk factor for late-onset Alzheimer's disease.  $\alpha$ 2-Macroglobulin enhances the clearance of soluble a/b-amyloid via low-density lipoprotein receptor-related protein in cortical neurons, but has no effect on secreted or full-length amyloid precursor protein levels.  $\alpha$ 2-Macroglobulin accounts for approx. 50% of the anti-thrombin activity in plasma.