

### Description

IgA is a 320 kDa antibody dimer secreted by plasma cells found in the mammary gland, intestine, respiratory tract and skin. At these surfaces IgA neutralizes viruses and protects against pathogen adherence to the body.

### Technical Information

Antibody:	Mouse monoclonal, IgG <sub>2a</sub>
Specificity:	Bovine IgA <sup>1</sup>
Cross-reactivity:	Not tested
Immunogen:	Bovine Ig

### Formulation and Storage

Purity:	IgG purified by protein G affinity chromatography from serum-free cell culture supernatant.
Product Formulation:	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 at 280 nm using an extinction coefficient of 1.4 ( $\epsilon_{0.1\%}$ ).
Reconstitution:	Reconstitute with deionized water.
Storage:	Aliquot and store at -20°C for prolonged periods. Avoid freeze-thaw cycles. Alternatively add 0.02% (w/v) sodium azide and store at 4°C.
Country of Origin:	Hybridoma country of origin- Kenya. Subcloned and produced- USA.
Available Formats:	0.1 mg and 0.5 mg

### References

<sup>1</sup> Williams, D.J.L., Newson, J., Naessens, J. 1990. *Vet. Immunol. Immunopathol.* 24:267-283.

### Applications

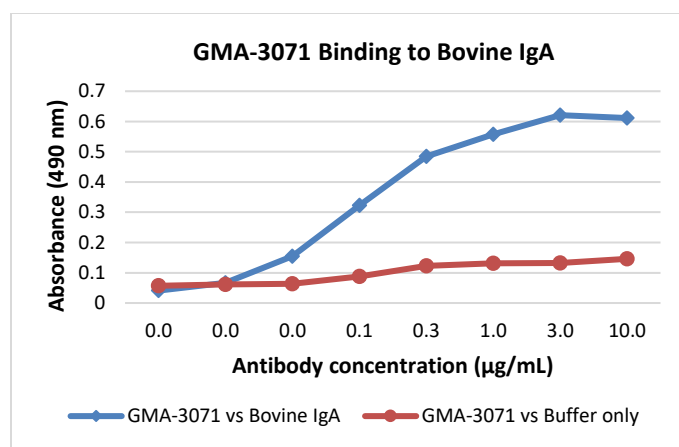
For research use only.

ELISA: Recommended concentration for use in a solid- phase ELISA is 0.10  $\mu$ g/mL.

Investigator should titrate for specific application.

### ELISA Data

Antibody specificity was confirmed by solid-phase ELISA.



Bovine IgA (Cedar Lane #CLFA07) was coated onto an ELISA plate at a concentration of 14  $\mu$ g/mL, for a final coating concentration of 40 nM, in coating buffer, 0.2M carbonate-bicarbonate. Serial dilutions of GMA-3071 were incubated with the antigen.

A goat anti-mouse Ig horseradish peroxidase (HRP) conjugated secondary antibody was used to detect GMA-3071 bound to IgA. O-phenylenediamine dihydrochloride (OPD) was used as a substrate.

Reaction was read on a plate reader at an absorbance of 490 nm after a 7.5-minute development time.