



## Enzyme Research Laboratories

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# Murine Anti-C4b Binding Protein

## Clone 036

In blood, C4b-binding protein (C4bp) is composed of six or seven identical  $\alpha$ -chains (Mr 70,000) and, in most molecules, contains an additional  $\beta$ -chain (Mr 45,000). Approximately 60% of plasma protein S is complexed to C4bp in blood. Mab C4BP binds human C4bp in solid-phase ELISA. The antibody can also be used for immunopurification of C4bp from plasma.

### Description

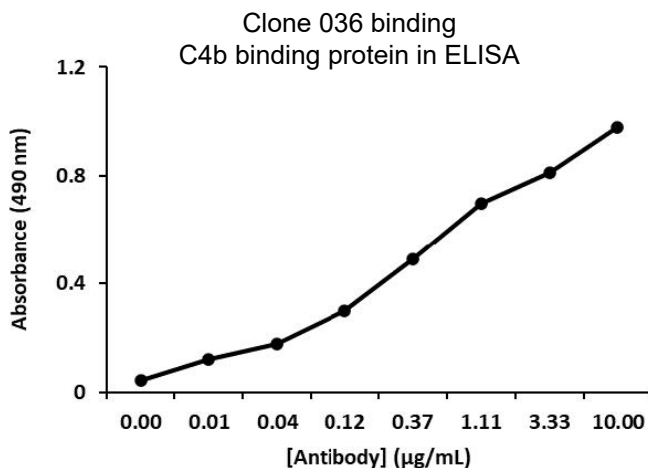
<b>Antibody Source:</b>	mouse monoclonal, IgG <sub>1</sub>
<b>Antigen Species Bound:</b>	human
<b>Specificity:</b>	C4b-binding protein
<b>Immunogen:</b>	human C4b-binding protein

### 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 C4b-binding protein.
<b>Antigen Purification:</b>	Antibody binds C4bp-Protein S complex in plasma.



### References

- [1] D.K. Ho, S. Ram, K.L. Nelson, P.J. Bonthuis, A.L. Smith. IgtC Expression Modulates Resistance to C4b Deposition on an Invasive Nontypeable Haemophilus Influenzae. (2007). *J Immunology*. 178:1002-1012.
- [2] D. Pilling, C.D. Buckley, M. Salmon, R.H. Gomez. Inhibition of Fibrocyte Differentiation by Serum Amyloid P. (2003). *J Immunology*. 171:5537-5546.