



CERTIFICATE OF ANALYSIS

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: C86750M **Lot #:** 13I26115
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Description: MAbs to Ricin, RCA60
Monoclonal Antibody to Ricin, *Ricinus communis* agglutinin 60 (RCA60).

Specificity: Recognizes the A-chain of RCA60. Also recognizes RCA120. Ricin is a cytotoxic lectin¹ possessing anti-tumor activity against various sarcomas in rat and mouse². It is composed of an A and a B polypeptide chain (Mr approx. 30,000 each) joined by a disulphide bond. The B-chain has two sites that both bind galactosides and galactosaminides^{3,4}, and binds to the membrane of sensitive mammalian cells. Once the ricin has entered the cell, the A-chain specifically inhibits protein synthesis by decreasing the affinity of the 60 S ribosomal subunit for the elongation factors⁵.

Host Animal: Mouse **Isotype:** IgG₁

Source: Ascites

Immunogen: Natural RCA60, full-length.

Format: Purified, Liquid

Purification: ≥ 95% pure (SDS-PAGE). Protein G Chromatography

Concentration: 5.3 mg/mL (OD_{280nm}, E^{0.1%} = 1.4)

Buffer: Phosphate Buffered Saline, pH 7.4

Preservative: 0.09% Sodium Azide

Applications: Suitable for use in ELISA and Western Blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage: Store at 2–8°C.

Safety Note(s): Refer to the appropriate Safety Data Sheet (SDS) for additional information.



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Reference:

The references listed below are for research purposes only:

1. Nicolson, G. L. et al., (1972), Biochim. Biophys. Acta, **266**, 543–557.
2. Lin, J. Y., et al., (1970), Nature (London) **227**, 292–293.
3. Zentz, C., et al., (1978), Biochim. Biophys. Acta, **536**, 18–26.
4. Villafranca, J. E. et al., (1981), J. Biol. Chem. **256**, 554–556.
5. Olsnes, S. et al., (1983), Receptor Mediated Endocytosis: Recept. Recognit. Ser. B. 15, 188–236.

Signature

06 April 2017
Date

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY