



# Magic™ Anti-Ricinus communis Ricin RCA60 Monoclonal antibody, Clone SB000 (DCAB-TJ158)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                           |                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>        | Recognizes the A-chain of RCA60 and RCA120.                                                                                                                                                                                                                                                                                                                 |
| <b>Target</b>             | Ricinus communis Ricin RCA60                                                                                                                                                                                                                                                                                                                                |
| <b>Isotype</b>            | IgG1                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source/Host</b>        | Mouse                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species Reactivity</b> | Ricinus communis                                                                                                                                                                                                                                                                                                                                            |
| <b>Clone</b>              | SB000                                                                                                                                                                                                                                                                                                                                                       |
| <b>Affinity Constant</b>  | Not Determined                                                                                                                                                                                                                                                                                                                                              |
| <b>Purification</b>       | ≥ 95% pure (SDS-PAGE). Protein G Chromatography                                                                                                                                                                                                                                                                                                             |
| <b>Conjugate</b>          | Unconjugated                                                                                                                                                                                                                                                                                                                                                |
| <b>Applications</b>       | 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.<br>Recommended<br>Suggested pair for testing (Capture - Detection): DCAB-TJ158 - <a href="#">DCAB-TJ081</a> |
| <b>Format</b>             | Purified, Liquid                                                                                                                                                                                                                                                                                                                                            |
| <b>Concentration</b>      | 3.8 mg/mL (OD280 nm, E0.1% = 1.4)                                                                                                                                                                                                                                                                                                                           |
| <b>Size</b>               | 1 mg                                                                                                                                                                                                                                                                                                                                                        |

|                     |                   |
|---------------------|-------------------|
| <b>Buffer</b>       | PBS, pH 7.4       |
| <b>Preservative</b> | 0.1% Sodium Azide |
| <b>Storage</b>      | Store at 2-8°C.   |

## BACKGROUND

**Introduction** Ricin /ˈrɪtʃɪn/ is a highly toxic, naturally occurring lectin (a carbohydrate-binding protein) produced in the seeds of the castor oil plant *Ricinus communis*. A dose the size of a few grains of table salt can kill an adult human. The median lethal dose (LD50) of ricin is around 22 micrograms per kilogram of body weight (1.78 mg for an average adult, around 1/228 of a standard aspirin tablet/0.4 g gross) in humans if exposure is from injection or inhalation. Oral exposure to ricin is far less toxic, and an estimated lethal dose in humans is approximately 1 milligram per kilogram.

**Keywords** Ricin RCA60