

Product datasheet                    MON7064



Mouse anti-LTA, clone 55 (Monoclonal)

Clone no.                    55

MONOSAN

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|                           |  |
|---------------------------|--|
| Product name              | Mouse anti-LTA, clone 55 (Monoclonal)                  |
| Host                      | Mouse  |
| Applications              | IHC-fr,FC,ELISA,IF,WB                                  |
| Species reactivity        | n/a  |
| Conjugate                 | -  |
| Immunogen                 | Unknown or proprietary to MONOSAN and/or its suppliers |
| Isotype                   | IgG3   |
| Clonality                 | Monoclonal   |
| Clone number              | 55   |
| Size                      | 1 ml   |
| Concentration             | > 200 ug/ ml   |
| Format                    | -  |
| Storage buffer            | PBS with 0.1% BSA and 0.02% sodium azide               |
| Storage until expiry date | 2-8°C  |

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**Additional info**

The monoclonal antibody 55 recognizes lipoteichoic acid (LTA). LTA, a glycerol phosphate surface polymer, is a component of the envelope of Gram-positive bacteria. LTA is anchored via its glycolipids to the membrane and carries a polysaccharide chain extending into the peptidoglycan layer of the cell wall. LTA is released spontaneously into the culture medium during growth of gram-positive bacteria. LTA functions as an immune activator with characteristics very similar to lipopolysaccharide (LPS) from Gram-negative bacteria. LTA binds to CD14 and triggers activation predominantly via Toll-like receptor 2. Although LTA is internalized and traffics to the Golgi, the cellular activation in response to LTA occurs at the cell surface.

**References**

1. Hogg;S et al. journal of systematic bacteriology 1997; 47:62
2. Langevelde, P et al Antimicrob Agents Chemother 1998, 42: 3073
3. Langevelde; P et al. Antimicrob Agents Chemother 1999; 43: 2984
4. Triantafilou M et al. J Biol Chem 2004; 279: 40882
5. Henneke P et al. J Immunol 2005; 174: 6449

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