

## 36-3824: Anti-CD137, Mouse Monoclonal Antibody(Clone: LOB12)

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|--------------------------------|---|
| <b>Clonality :</b>             | Monoclonal  |
| <b>Clone Name :</b>            | LOB12   |
| <b>Application :</b>           | Functional Assay,FACS,IF  |
| <b>Reactivity :</b>            | Mouse   |
| <b>Gene :</b>                  | Tnfrsf9 (Mouse)   |
| <b>Gene ID :</b>               | 21942   |
| <b>Uniprot ID :</b>            | P20334  |
| <b>Alternative Name :</b>      | 4-1BB ligand receptor; 4-1BB, Mouse, homolog; CD137; HLDA VI; induced by lymphocyte activation (ILA); Interleukin activated receptor homolog of Mouse Ly63; Ly63, Mouse; Receptor protein 4 1BB; T cell antigen ILA; T-cell antigen 4-1BB homolog; T-cell antigen ILA; TNF receptor superfamily member 9; Tumor necrosis factor receptor superfamily member 9 (TNFRSF9) |
| <b>Isotype :</b>               | Rat IgG2a, kappa  |
| <b>Immunogen Information :</b> | Murine CD137 human Fc fusion protein  |

### Description

CD137 (4-1BB), a member of the tumor necrosis factor receptor superfamily, is a type I transmembrane glycoprotein expressed on the cell surface of activated splenic T cells and thymocytes. The functions of CD137 in T lymphocytes include regulating activation, proliferation and apoptosis. CD137 and CD28 are costimulatory molecules of T cell activation. Costimulatory molecules are important in initiating anti-tumor immune responses. CD137 plays an important role in regulating T-cell-dependent immune responses. Expression of CD137 correlates negatively with lymphocyte proliferation and positively with the degree of activation-induced cell death caused by mitogen overstimulation. In monocytes, CD137 induces activation, promotes adherence and prolongs survival. The LOB12.3 antibody is an agonistic antibody that has been shown to stimulate 4-1BB signaling and delay tumor growth in vivo when administered in combination with immune checkpoint inhibitors.

### Product Info

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|----------------------------|---|
| <b>Amount :</b>            | 20 µg / 100 µg  |
| <b>Content :</b>           | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| <b>Storage condition :</b> | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.                               |

### Application Note

Functional Studies (Order Antibody without BSA & Azide); Flow Cytometry (0.5-1µg/million cells in 0.1ml); Immunofluorescence (1-2µg/ml);