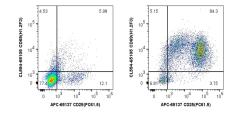
For Research Use Only Mouse CD3/CD28 T Cell Activation Beads Kit



Catalog Number: KMS311

Description	T lymphocytes are activated through MHC class II molecules on antigen-presenting cells (APC). After activation, T cells expand rapidly and secrete various cytokines. The Mouse CD3/CD28 T Cell Activation Beads Kit is designed to activate and expand mouse T cells. This kit contains Biotinylated anti-mouse CD3 and CD28 antibodies, as well as cell culture grade Streptavidin magnetic beads. After Streptavidin magnetic beads are loaded with biotinylated CD3/CD28, they mimic antigen presenting cells and can activate resting T lymphocytes from mouse splenocytes or purified T lymphocytes. After 2-3 days of activation, magnetic beads can easily be removed by magnet. Further T lymphocytes expansion may require specific additives for in <i>vitro</i> culture.
Product Information	KMS311-10: · MS311A-10: 200µL 0.5mg/mL functional grade Biotin-CD3 (clone: 145-2C11) · MS311B-10: 200µL 0.5mg/mL functional grade Biotin-CD28 (clone: 37.51.1) · MS311C-10: 500µL cell culture grade Streptavidin magnetic beads (2x10 ⁸ beads/mL) KMS311-100: · MS311A-100: 2000µL 5mg/mL functional grade Biotin-CD3 (clone: 145-2C11) · MS311B-100: 2000µL 5mg/mL functional grade Biotin-CD28 (clone: 37.51.1) · MS311C-100: 5000µL cell culture grade Streptavidin magnetic beads (2x10 ⁸ beads/mL)
Package	10test/100test
Storage	2-8°C
Reactivity	Mouse
Beads diameter	2.7 μm
Recommend usage	20µL Biotin-CD3, 20µL Biotin-CD28 and 50µL Streptavidin magnetic beads; mix well and add 10µL buffer for incubation. 100µL antibody-loaded magnetic beads contains 1x10 ⁷ magnetic particles and is used to activate 1x10 ⁷ mouse splenocytes or purified mouse T lymphocytes in 2mL cell culture media (1:1 bead to cell ratio).

Validation Data



Representative example of BALB/c mouse splenocyte activation: 10'7 BALB/c mouse splenocytes in 2 ml cell culture media were activated by Mouse CD3/CD28 T cell Activation Beads Kit for 2 days at a 1.3:1 bead to cell ratio. Unstimulated cells (left panel) and stimulated cells (right panel) were stained with flow antibodies:... APC-CD25 and CL594-CD69. Total viable lymphocytes were gated.