

BP-50601

## **Anti-mouse PD-1 / CTLA-4 Bispecific Antibody, Mouse IgG2c LALAPG Kappa (Clone 29F.1A12.1 / 9D9)**

The rat anti-mouse PD-1 monoclonal antibody 29F.1A12 (rat IgG2a kappa) reacts with the mouse PD-1 protein (programmed death-1 or CD279) encoded by the mouse *Pdcd1* gene, a member of the CD28 family of the Ig superfamily. PD-1 has two ligands, PD-L1 and PD-L2, both of which belong to the B7 family. It has been shown that in mouse models of melanoma, tumor growth can be transiently arrested via treatment with the anti-mouse PD-1 and anti-mouse PD-L1 antibodies which block the interaction between the PD-L1 protein and its receptor PD-1 protein. The 29F.1A12 monoclonal antibody blocks the binding of both the mouse PD-L1 protein and the mouse PD-L2 protein to the mouse PD-1 protein.

The 9D9 antibody blocks the mouse cytotoxic T lymphocyte antigen-4 (CTLA-4). Blocking CTLA-4 removes an inhibitory signal from reducing the activity of T lymphocytes. Cytotoxic T-lymphocyte antigen-4 (CTLA-4) is an inhibitory molecule that competes with the stimulatory CD28 for binding to B7 on antigen presenting cells. CTLA-4 and CD28 are both presented on the surface of T-cells.

It is under investigation how the recombinant anti-mouse PD-1 / CTLA-4 bispecific antibodies (29F.1A12.1 / G6-31) behave different from the individual monoclonal antibodies and their combination.

This recombinant anti-mouse PD-1 / CTLA-4 bispecific antibodies have a part (variable regions) or complete amino acid sequences of the rat anti-mouse PD-1 antibody (hybridoma clone name or number: 29F.1A12) and the mouse anti-mouse CTLA-4 antibody (hybridoma clone name or number: G6-31).

<b>Product Details</b>	
Species Reactivity	Mouse
Source	Mammalian Cells
Isotype	Mouse IgG2c, kappa
Class	Bispecific Antibody
Type	Recombinant Antibody
Clone	29F.1A12.1 / 9D9
Target	PD-1 / CTLA-4
Purity	>95%
Molecular Weight	N/A
Formulation	1×PBS, pH7.4
Storage conditions	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 3 months from date of receipt, 2 to 8°C as supplied. 12 months from date of receipt, -20°C to -70°C as supplied.