

BP-50603

Anti-mouse TIGIT / PD-1 Bispecific Antibody, Mouse IgG2c LALAPG Kappa (Clone 1F4 / 29F.1A12.1)

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 1F4 antibody binds to the TIGIT protein (WUCAM, *Vstm3* or *VSIG9*), a novel immune checkpoint receptor with inhibitory function. TIGIT is expressed on T cells and natural killer (NK) cells, and several human cancers, including melanoma, NSCLC, and colorectal cancer. Similar to PD-1, the TIGIT receptor limits antitumor immune response in cancer. It is under investigation how the recombinant anti-mouse PD-1 / TIGIT bispecific antibodies (29F.1A12.1 / 1F4) behave different from the individual monoclonal antibodies and their combination.

This recombinant anti-mouse PD-1 / TIGIT 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 TIGIT antibody (hybridoma clone name or number: 1F4).

| Product Details | |
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| Species Reactivity | Mouse |
| Source | Mammalian Cells |
| Isotype | Mouse IgG2c, kappa |
| Class | Bispecific Antibody |
| Type | Recombinant Antibody |
| Clone | 1F4 / 29F.1A12.1 |
| Target | TIGIT / PD-1 |
| 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. |