

Anti-PD-1 [1H3] Bulk Size Ab04356-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 1H3

Alternative Name(s) of Target: CD279; PD1; PD 1; Programmed cell death protein 1; Programmed cell death 1; pdcd1; Protein PD-1; hPD-1

UniProt Accession Number of Target Protein: Q15116

Published Application(s): Blocking, neutralizing, ELISA, FC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing mice with human PD-1-Fc.

Specificity: The antibody binds specifically to PD-1.

Application Notes: The original format of the antibody was able to bind to PD-1 expressed on the surfaces of CHO cells, as measured by median fluorescence intensity. The antibody exhibited neutralizing activity and recognized antigen. CHO cells transfected with human full length PD-1 were pre-incubated with the human chimeric version of the antibody and stained by biotin-labeled anti-hB7-H1-Fc or anti-hB7-DC mFc. The antibody could bind to the cells and block binding of B7-H1-Fc and B7-DC-Fc to cells expressing human PD-1. The chimeric version of the antibody exhibited an affinity KD of 2.19 nM. The EC50 of the construct was found to be 75 ng. The chimeric antibody demonstrated enhanced binding to both CD8 and CD4 cells. The chimeric version of the antibody was found to mediate approximately a 7-fold increase in T cell proliferation and approximately a 12 fold increase in IFN-γ production per cell. Humanized versions of the antibody were constructed. The specificity of the antibodies was confirmed by ELISA. The humanized antibodies could block interactions between PD-1-expressing HEK293 cells and B7-H1 (US11236141B2).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size:

1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.