

Human CD80 Antibody

Polyclonal Antibody

Product Information

Product No.: B558
Isotype: AB_2828230
Storage: -20° to -70°C

Product Description

Specificity:

Goat Anti-Human B7-1 recognizes Human B7-1. This antigen affinity purified polyclonal antibody was purified using a proprietary chromatographic technique that includes covalently immobilizing the antigen proteins or peptides to agarose-based beads. This purification method enhances specificity, reduces nonspecific binding of extraneous IgG and provides you with the most reliable reagent available for your early discovery research.

Antigen Distribution:

CD80 is expressed on activated B cells, monocytes/macrophages, and dendritic cells.

Background:

CD80 is a highly glycosylated 60 kD protein that is part of the Ig superfamily and is significantly involved in immune cell activation in response to pathogens. CD80 is closely related to, and works in tandem with CD86 (B7-2) to prime T- cells. CD80 binds to CTLA-4 to deliver an inhibitory signal to T cells. The ligation of CD28 on T cells with CD80 and CD86 on APCs co-stimulates T cells resulting in enhanced cell activation, proliferation, and cytokine production. It is thought that CD80 interacts with a ligand on Natural Killer cells, activating the Natural Killer cell-mediated cell death of the CD80 carrier. The activation of Natural Killer cell-mediated death via CD80 interactions has potential as a possible cancer immunotherapy through the induction of CD80 expression on tumor cells.

Known Reactivity Species:

Human

Format:

Antigen Affinity Purified

Immunogen:

Purified Recombinant Human B7-1 (>98%)

Formulation

This antigen affinity purified polyclonal antibody has been 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 containing 5.0% w/v trehalose with no calcium, magnesium, or preservatives present.

Endotoxin

<0.1 EU/µg as determined by the LAL method

Storage and Stability

The lyophilized antigen affinity purified polyclonal antibody can be stored desiccated at -20°C to -70°C for twelve months from date of receipt. The reconstituted antibody can be stored for at least four weeks at 2° to 8°C. For long-term storage of the reconstituted antibody, aseptically aliquot into working volumes and store at -20°C to -70°C in a manual defrost freezer. No detectable loss of activity was observed after six months.

Avoid Repeated Freeze Thaw Cycles

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

Western Blotting: To detect Human B7-1 this polyclonal antibody can be used at a concentration of 1 µg/ml. This polyclonal antibody should be used in conjunction with compatible second-step reagents such as PN:G505 and a chromogenic substrate such as PN:T343. The detection limit for Human B7-1 is 5 ng/lane under either reducing or non-reducing conditions. The sensitivity of detection may increase up to 50 fold when a chemiluminescent substrate is used. A suitable Western blotting control is PN:B532.

Other Applications Reported in Literature:

IHC (NBF/Par.): This antibody should give satisfactory staining results when used at a concentration of 5-15 µg/ml. The recommended secondary antibody for IHC is PN:G505. For chromogenic detection with high signal and low background use PN:D100 or PN:K107.

Country of Origin

USA