abcam

Product datasheet

Recombinant human CD80 protein ab180050

4 Images

Description

Product name Recombinant human CD80 protein

Biological activity

Measured by its ability to induce IL 2 secretion by Jurkat human acute T cell leukemia cells. The

ED 50 for this effect is typically 0.01 - 0.1 µg/mL in the presence of PHA

Purity > 95 % SDS-PAGE.

ab180050 purity was determined by reduced SDS-PAGE and staining overnight with Coomasie

Blue.

Endotoxin level < 1.000 Eu/µg
Expression system HEK 293 cells

Accession P33681

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Human

Sequence VIHVTKEVKEVATLSCGHNVSVEELAQTRIYWQKEKKMVL

TMMSGDMNIW

PEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYEKDAFK

REHLAEV

TLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLE

NGEELNA

INTTVSQDPETELYAVSSKLDFNMTTNHSFMCLIKYGHLRV

NQTFNWNTT KQEHFPDN

Predicted molecular weight 25 kDa including tags

Amino acids 35 to 242

Tags His tag C-Terminus

Additional sequence information Extracellular domain. (NP_005182.1)

Specifications

Our **Abpromise guarantee** covers the use of **ab180050** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Functional Studies

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SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -20°C or -80°C. Avoid freeze / thaw

cycle.

pH: 7.40

Constituents: 95% PBS, 5% Trehalose

The formulation is lot specific. Please contact our Technical Support team for details

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution This information is lot specific. Please contact our Technical Support team for details

General Info

Function Involved in the costimulatory signal essential for T-lymphocyte activation. T-cell proliferation and

cytokine production is induced by the binding of CD28 or CTLA-4 to this receptor.

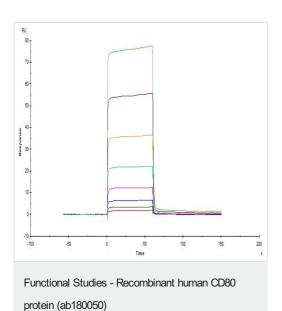
Tissue specificity Expressed on activated B-cells, macrophages and dendritic cells.

Sequence similarities Contains 1 lg-like C2-type (immunoglobulin-like) domain.

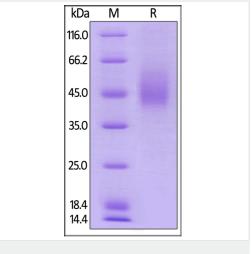
Contains 1 lg-like V-type (immunoglobulin-like) domain.

Cellular localization Membrane.

Images

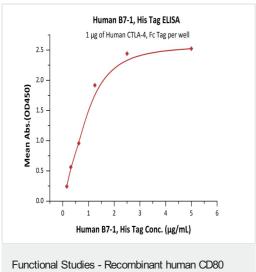


Immobilized Human / Cynomolgus / Rhesus macaque CD28, Fc Tag (HPLC-verified) on CM5 Chip can bind Human B7-1, His Tag with an affinity constant of 5.29 μ M as determined in a SPR assay (Biacore T200).



Human B7-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

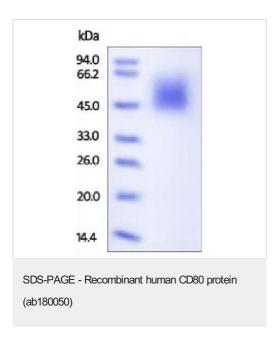




bind Human B7-1, His Tag with a linear range of 0.156-1.25 $\mu g/mL$.

Immobilized Human CTLA-4, Fc Tag at 10 μ g/mL (100 μ L/well) can

Functional Studies - Recombinant human CD80 protein (ab180050)



SDS-PAGE analysis of ab180050 in reducing conditions. Gel stained overnight with Coomassie Blue. Protein migrates as 45 - 75 kDa due to different glycosylation.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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