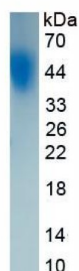
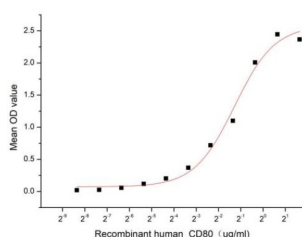


Human T-lymphocyte activation antigen CD80 / B7-1 (CD80) Protein

Catalogue No.: abx655966



SDS-PAGE analysis of recombinant Human T-lymphocyte activation antigen CD80 / B7-1 (CD80) Protein (Active).



Functional ELISA analysis of the binding activity of CD80 with CD28. See Biological Activity for further details.

Human T-lymphocyte activation antigen CD80 / B7-1 (CD80) Protein is a recombinant active Human protein.

Target: T-lymphocyte activation antigen CD80 / B7-1 (Anti-CD80)

Origin: Human

Expression: Recombinant

Tested Applications: ELISA

Host: 293F cells

Conjugation: Unconjugated

Form: Lyophilized

Activity: Active

Biological Activity: EC₅₀: 0.412 µg/ml

A functional binding ELISA assay was conducted to detect the interaction of recombinant Human CD80 with recombinant human CD86. Briefly, serial dilutions of recombinant rat Human T-lymphocyte activation antigen CD80 / B7-1 (CD80) Protein were carried out in PBS, 0.01 % BSA (pH 7.4). Duplicate samples of 100 µl were transferred to microtiter wells pre-coated with CD86 and incubated for 1h at 37 °C. Wells were washed with PBST 3 times and incubated with Streptavidin-HRP for 40 minutes, then aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 °C. Finally, add 50 µl stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant Human CD80 and recombinant human CD86 was shown in Figure 1.

Purity: > 95%

Reconstitution: To keep the original salt concentration, we recommend reconstituting to the original concentration prior to lyophilization (see Concentration) in ddH₂O. If a lower concentration is required, dilute in 10 mM PBS, pH 7.4. If a higher concentration is required, the product can be reconstituted directly in 10 mM PBS, pH 7.4, though please note that this will change the overall salt concentration. The stock concentration should be between 0.1-1.0 mg/ml. Do not vortex.

Storage: Store at 2-8°C for up to one month. For long-term storage, store at -80°C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: P33681 ([UniProt](#), [ExPASy](#))

Molecular Weight: Calculated MW: 25.5kDa
Observed MW (SDS-PAGE): 40-60 kDa
Possible reasons why the actual band size differs from the predicted band size:

1. Splice variants. Alternative splicing may create different sized proteins from the same gene.
2. Relative charge. The composition of amino acids may affect the charge of the protein.
3. Post-translational modification. Phosphorylation, glycosylation, methylation etc. may affect the band size.
4. Post-translational cleavage. Many proteins are synthesised as pro-proteins, and then cleaved to give the active form.
5. Polymerisation of the target protein. Dimerisation, multimerisation etc. will increase the band size observed.

Sequence Fragment: Val35-Asn242

Sequence: VIHVTKEVATLSC GHNVSVEELA QTRIWQKEK KMLTMMMSGD MNIWPEYKNR TIFDITNNLS
IVILALRPSE EGTYESVVLK YEKDAFKREH LAEVLTSVKA DFPTPSISDF EIPTSNIIRI ICSTSGGFPE
PHLSWLENGE ELNAINTTVS QDPETELYAV SSKLDFNMTT NHSFMCLIKY GHLRVNQTFN
WNTTKQEHFP DN

Tag: N-terminal His tag

Buffer: Prior to lyophilization: PBS, pH 7.4, containing 5% Trehalose.

Endotoxin Level: < 1.0 EU/µg (determined by the LAL method)

Datasheet

Version: 2.0.0

Revision date: 18 Nov 2025



Concentration: Prior to lyophilization: 1100 µg/ml

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only