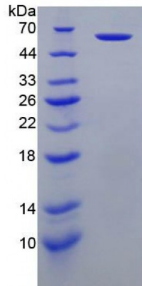


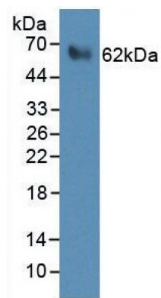
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Human Perforin 1 (PRF1) Protein (Active)

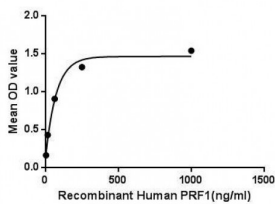
Catalogue No.: abx652309



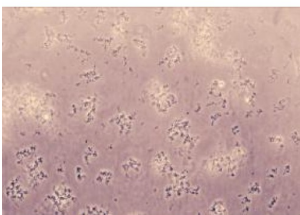
SDS-PAGE analysis of recombinant Human PRF1 Protein.



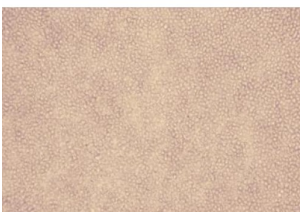
WB analysis of recombinant Human PRF1 Protein, using Rabbit anti-Human PRF1 antibody ([abx100625](#)).



Binding activity of PRF1 with CRT.



The activity of recombinant Human PRF1 Protein was observed with a hemolysis assay measuring lysis of rabbit erythrocytes (RaE). Recombinant Human PRF1 Protein was diluted 2-fold in 0.9% NaCl. To each well, 50 μ l of diluted PRF1 (12.5 μ g/ml) and 10 μ l 0.1 M CaCl₂ was added, followed by 50 μ l 0.25% RaE. The wells were mixed gently and the plate was incubated for 20 h at 37 °C, 5% CO₂.



Hemolysis assay negative control, where 10 μ l 0.9% NaCl was used instead of 10 μ l 0.1 M CaCl₂.

Recombinant Perforin 1 (PRF1) is a recombinant protein from Human. It is produced in E.coli using Prokaryotic expression.

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Target:	Perforin 1 (PRF1)
Origin:	Human
Host:	E. coli
Tested Applications:	WB, SDS-PAGE
Purity:	> 95%
Form:	Lyophilized
Reconstitution:	Reconstitute in 20 mM Tris, 150 mM NaCl (pH 8.0) to a concentration of 0.1-1.0 mg/ml. Do not vortex.
Conjugation:	Unconjugated
Storage:	Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.
Expression:	Recombinant
Molecular Weight:	61.5 kDa (Predicted Molecular Mass), 62 kDa (Accurate Molecular Mass as determined by SDS-PAGE)
Swiss Prot:	P14222
Sequence Fragment:	Lys32-Phe316
Sequence:	KRSHKFVPG AWLAGEGVDV TSLRRSGSFP VDTQRFLRPD GTCTLCENAL QEGTLQRLPL ALTNWRAQGS GCQRHVTRAK VSSTEAVARD AARSIRNDWK VGLDVTPKPT SNVHVSVAGS HSQAANFAAQ KTHQDQYSFS TDTVECRFYS FHVVHTPPLH PDFKRALGDL PHHFNASTQP AYLRLISNYG THFIRAVELG GRISALTALR TCELALEGLT DNEVEDCLTV EAQVNIGIHG SISAEAKACE EKKKKHKMTA SFHQTYRERH SEVVGGHHTS INDLLF
Tag:	Two N-terminal tags, His-tag and GST-tag
Activity:	Active
Biological Activity:	Calreticulin (CRT) has been identified as an interactor of PRF1, therefore a binding ELISA assay was conducted to detect the interaction of recombinant human PRF1 and recombinant human CRT. Briefly, PRF1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CRT-coated microplate wells and incubated for 2 h at 37 °C. Wells were washed with PBST and incubated for 1 h with anti-PRF1 polyclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody, the wells were aspirated and washed 3 times. TMB substrate solution was added to the wells, which were then incubated for 15-25 minutes at 37°C. Finally, 50 µl stop solution was added to the wells and the absorbance was measured at 450 nm immediately. The binding activity of PRF1 and CRT is shown in Figure 3, where it can be seen that the effect is dose-dependent.

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Buffer: Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.05% Sarcosyl and 5% Trehalose.

Note: This product is for research use only.