

Recombinant Human CLEC7A cell lysate

Cat. No. CLEC7A-001HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CLEC7A / Dectin-1 / CLECSF12 derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer.
Species	Human
Source	Human Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.2. Re-dissolve the pellet using 200μL pure water and boiled for 2-5 min.3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.Notes:The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	CLEC7A C-type lectin domain family 7, member A [Homo sapiens]
Official Symbol	CLEC7A
Synonyms	CLEC7A; C-type lectin domain family 7, member A; C type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 12 , CLECSF12; C-type lectin domain family 7 member A; dectin 1; hDectin 1; dectin-1; beta-glucan receptor; lectin-like receptor 1; DC-associated C-type lectin 1; C-type lectin superfamily member 12; dendritic cell-associated C-type lectin 1; dendritic cell-associated C-type lectin-1; C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 12; BGR; CANDF4; DECTIN1; CLECSF12;
Gene ID	64581
mRNA Refseq	NM_022570
Protein Refseq	NP_072092

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MIM	606264
UniProt ID	Q9BXN2
Chromosome Location	12p13.2-p12.3
Pathway	Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem;
Function	(1->3)-beta-D-glucan binding; MHC protein binding; binding; metal ion binding; opsonin binding; pattern recognition receptor activity; sugar binding; sugar binding;

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