APL350Hu01 100µg Active C-Type Lectin Domain Family 3, Member B (CLEC3B) Organism Species: *Homo sapiens* (Human) *Instruction manual*

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Prokaryotic expression. Host: *E. coli* Residues: Glu22~Val202 Tags: N-terminal His-tag Purity: >90% Endotoxin Level: <1.0EU per 1µg (determined by the LAL method). Buffer Formulation: PBS, pH7.4, containing 0.01% SKL, 5%Trehalose . Original Concentration: 200µg/mL Applications: Cell culture; Activity Assays. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 5.8 Predicted Molecular Mass: 21.7kDa Accurate Molecular Mass: 23kDa as determined by SDS-PAGE reducing conditions.

[<u>USAGE</u>]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Cloud-Clone Corp.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

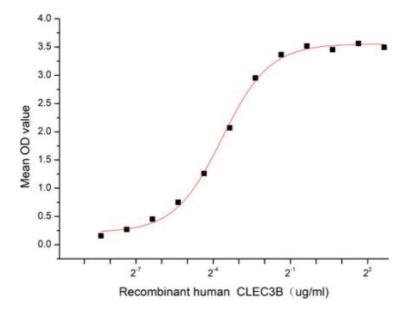
EPPTQKPKK IVNAKKDVVN TKMFEELKSR LDTLAQEVAL LKEQQALQTV CLKGTKVHMK CFLAFTQTKT FHEASEDCIS RGGTLGTPQT GSENDALYEY LRQSVGNEAE IWLGLNDMAA EGTWVDMTGA RIAYKNWETE ITAQPDGGKT ENCAVLSGAA NGKWFDKRCR DQLPYICQFG IV

[ACTIVITY]

CLEC3B (C-type lectin domain family 3 member B), also known as Tetranectin (TN), is a plasminogen-kringle-4-binding protein that is detected in various endocrine tissues and in epithelial and mesenchymal cells, including fibroblasts, monocytes, and neutrophils. Studies have shown that abnormal CLEC3B expression plays an important role in tumourigenesis and metastasis in gastric adenocarcinoma, breast cancer, cervical cancer, ovarian cancer, carcinoma of the urinary bladder, and melanoma. Besides, Secreted Phosphoprotein 2 (SPP2) has been identified as an interactor of CLEC3B, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human SPP2 and recombinant human CLEC3B. Briefly, CLEC3B was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ I were then transferred to SPP2-coated microtiter wells and incubated for 1h at 37 °C. Wells were washed with PBST and incubated for 1h with anti-CLEC3B pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 °C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C.

Cloud-Clone Corp.

Finally, add 50 μ L stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human CLEC3B and recombinant human SPP2 was shown in Figure 1, the EC50 for this effect is 0.08 ug/mL.





SPP2

[IDENTIFICATION]



Figure 2. SDS-PAGE

Sample: Active recombinant CLEC3B, Human

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if

Cloud-Clone Corp.

the kit was used in clinical diagnostic or any other procedures.