**Supplementary File 1. Supplementary materials.**

**Western blot agents**

RIPA buffer (R0020, Beijing Solarbio, China)

PMSF (ST506-2, Beyotime, China)

Phosphatase inhibitor cocktail 1(ab201112, abcam, UK)

BCA Protein Assay Kit (T9300A, Takara, Japan)

High Range Protein Ladder (26625, Thermo, USA)

PageRuler Prestained Protein Ladder (26617, Thermo, USA）

Immobilon Western HRP Substrate (WBKLS0500, Millipore, USA）

Rabbit anti-GAPDH Polyclonal Antibody (ABS132004, Absin, China）

HRP labeled Goat anti-rabbit IgG antibody (ZB-2301, ZSGB-BIO, China）

HRP labeled Goat anti-mouse IgG antibody (ZB-2305, ZSGB-BIO, China）

Rabbit polyclonal antibody to MLKL (DF7412, Affinity Biosciences, USA)

Rabbit polyclonal antibody to Phospho-MLKL (Ser358)(AF7420, Affinity Biosciences, USA)

Rabbit Polyclonal antibody to ZO-1 (20742-1-AP, Proteintech, China)

Rabbit Polyclonal antibody to Claudin 1 (28674-1-AP, Proteintech, China)

Mouse Polyclonal antibody to Occludin (66378-1-lg, Proteintech, China)

Rabbit Polyclonal antibody to MLKL (21066-1-AP, Proteintech, China)

Rabbit monoclonal [EPR9514] to MLKL (phospho S358) (ab187091, abcam, UK)

Rabbit Polyclonal antibody to RIPK1 (17519-1-AP, Proteintech, China)

Rabbit Polyclonal antibody to Phospho-RIPK1 (Ser166) (28252-1-AP, Proteintech, China)

Rabbit Polyclonal antibody to RIPK3 (17563-1-AP, Proteintech, China)

Phospho-RIP3 (Ser227) (D6W2T) Rabbit mAb (93654, CST, USA)