

PRODUCT DATA SHEET

Product: Anti-NALP1, clone Nalpy1-4

Cat. No.: MC-110 (100 µg)

Synonyms:

NACHT- LRR- and PYD-containing protein, DEFCAP, NAC, CARD7.

Specificity:

Recognizes the pyrin domain (PYD) of human NAPL1.

Species Reactivity:

Human. Others species not tested.

Ig Isotype:

Mouse IgG₁

Immunogen:

Recombinant human NALP1 (NACHT-,LRR and PYD-containing protein 1) (pyrin domain).

Format:

100 µg of antibody purified from concentrated hybridoma tissue culture supernatant. Antibody is at 1 mg/mL in PBS with 0.02% sodium azide. 95% purity as determined by SDS-PAGE.

Storage:

Store at 4°C short term and at -20°C long term. Aliquot to avoid freeze/thaw cycles.

Applications:

- Western blots: Use at a 1:1,000 dilution.
- Immunoprecipitation
- Immunocytochemistry: Use at a 1:1,000 dilution.
- Immunohistochemistry: Paraffin sections (microwave treatment), frozen sections.

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.

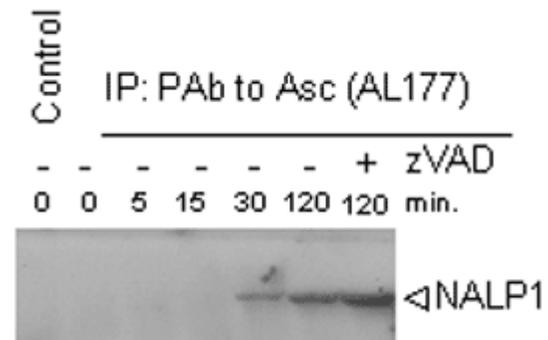


Figure 1: Western blot analysis of the time course of assembly of the inflammasome with antibody to NALP1 (MC-110) in THP-1 macrophages.

Method: Assembly of the inflammasome was induced by shifting the temperature to 30°C after hypotonic lysis. THP-1 cell extracts were immunoprecipitated with antibody to Asc (PC-382) and run on SDS-PAGE. NALP1 was detected by antibody to NALP1 (Nalpy1-4) (MC-110) at 1:1,000 dilution. Anti-mouse IgG coupled horse radish peroxidase was used at 1:5,000 dilution for ECL detection.

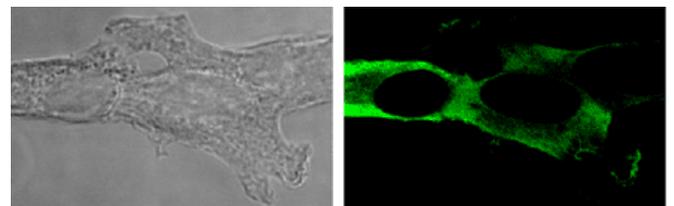


Figure 2: Detection of NALP1 in 293T cells transfected with a human NALP1 expression plasmid. Left: Phase contrast. Right: Staining with antibody to NALP1 (MC-110).

Method: 293T cells transfected with full length human NALP1 were fixed with 4% paraformaldehyde and stained with 1 µg/mL antibody to NALP1 (MC-110) and then Alexa 488 (1:300 dilution).