

# Pellino 3 (B-3): sc-376466

## BACKGROUND

Mammalian Pellino proteins 1-3 (pellino *Drosophila* homolog 1-3) are scaffolding components within Toll-like receptor (TLR) and Interleukin-1 (IL-1) receptor signaling cascades. Pellino 1 and 3 interact with complexes that also contain IL-1R-associated kinase 4 (IRAK4) and tumor necrosis factor receptor-associated factor 6 (TRAF6). Pellino 1, 2 and 3 interact with TAK1 (TGF $\beta$  activated kinase 1). Pellino 2 can initiate mitogen activated protein kinase pathways leading to activation of AP-1 and Elk-1. Pellino 3 promotes translocation of MAPK-activated protein kinase 2 from the nucleus to the cytoplasm and activates transcription factor CREB in a p38 MAPK-dependent manner. Pellino 3 physically interacts with NF $\kappa$ B-inducing kinase (NIK) in an IL-1-dependent manner and leads to activation of c-Jun, Elk-1 and c-Jun N-terminal kinase.

## CHROMOSOMAL LOCATION

Genetic locus: PELI3 (human) mapping to 11q13.2; Peli3 (mouse) mapping to 19 A.

## SOURCE

Pellino 3 (B-3) is a mouse monoclonal antibody raised against amino acids 101-280 mapping within an internal region of Pellino 3 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG $_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Pellino 3 (B-3) is available conjugated to agarose (sc-376466 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376466 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376466 PE), fluorescein (sc-376466 FITC), Alexa Fluor<sup>®</sup> 488 (sc-376466 AF488), Alexa Fluor<sup>®</sup> 546 (sc-376466 AF546), Alexa Fluor<sup>®</sup> 594 (sc-376466 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-376466 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-376466 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-376466 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

## APPLICATIONS

Pellino 3 (B-3) is recommended for detection of Pellino 3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). Pellino 3 (B-3) is also recommended for detection of Pellino 3 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Pellino 3 siRNA (h): sc-44403, Pellino 3 siRNA (m): sc-44941, Pellino 3 shRNA Plasmid (h): sc-44403-SH, Pellino 3 shRNA Plasmid (m): sc-44941-SH, Pellino 3 shRNA (h) Lentiviral Particles: sc-44403-V and Pellino 3 shRNA (m) Lentiviral Particles: sc-44941-V.

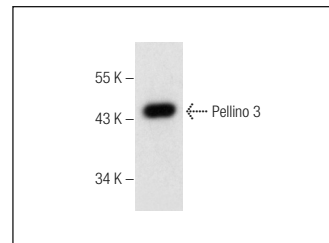
Molecular Weight of Pellino 3: 51 kDa.

Positive Controls: Ramos cell lysate: sc-2216 or NAMALWA cell lysate: sc-2234.

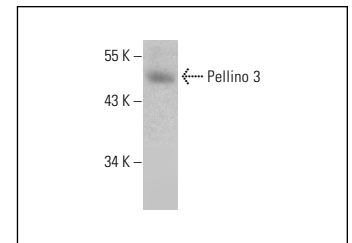
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA



Pellino 3 (B-3): sc-376466. Western blot analysis of Pellino 3 expression in Ramos whole cell lysate.



Pellino 3 (B-3): sc-376466. Western blot analysis of Pellino 3 expression in NAMALWA whole cell lysate.

## SELECT PRODUCT CITATIONS

- Li, F., et al. 2020. Long non-coding RNA MIAT mediates non-small cell lung cancer development through regulating the miR-128-3p/PELI3 axis. *Biochem. Genet.* 58: 867-882.
- Liang, H., et al. 2021. TGR5 activation attenuates neuroinflammation via Pellino 3 inhibition of caspase-8/NLRP3 after middle cerebral artery occlusion in rats. *J. Neuroinflammation* 18: 40.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

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