**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 (IRAK-4) and tumor necrosis factor receptor-associated factor 6 (TRAF6). Pellino 1, 2 and 3 interact with Tak1 (TGFβ 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 NFκB-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: PELI1 (human) mapping to 2p14, PELI2 (human) mapping to 14q22.3, Pellin1 (mouse) mapping to 11A3.1, Pellin2 (mouse) mapping to 14C1.

**SOURCE**

Pellino 1/2 (F-7) is a mouse monoclonal antibody raised against amino acids 151-255 mapping within an internal region of Pellino 1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Pellino 1/2 (F-7) is available conjugated to agarose (sc-271065 AC), 50 µg/ml, sodium azide and 0.1% gelatin.

Pellino 1/2 (F-7) is available conjugated to 0.25 ml agarose in 1 ml, for IP; or HRP (sc-271065 HRP), 200 µg/ml, for folding 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 (IRAK-4) and tumor necrosis factor receptor-associated factor 6 (TRAF6). Pellino 1, 2 and 3 interact with Tak1 (TGFβ 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 NFκB-inducing kinase (NIK) in an IL-1-dependent manner and leads to activation of c-Jun, Elk-1 and c-Jun N-terminal kinase.

**APPLICATIONS**

Pellino 1/2 (F-7) is recommended for detection of Pellino 1 and Pellino 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 1/2 (F-7) is also recommended for detection of Pellino 1 and Pellino 2 in additional species, including equine, canine, bovine and porcine.

Molecular Weight of Pellino 1/2: 46 kDa.

Positive Controls: Ramos whole cell lysate: sc-2216, RAW 264.7 whole cell lysate: sc-2211 or Raji whole cell lysate: sc-364236.

**STORAGE**

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

**DATA**

See our website at www.scbt.com for detailed protocols and support products.

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