**BACKGROUND**

Cancerous inhibitor of protein phosphatase 2A (CIP2A), also designated p90 autoantigen or KIAA1524, is a single-pass membrane protein that exhibits oncogenic activity. CIP2A is known to inhibit PP2A (protein phosphatase 2A) dephosphorylation of c-Myc, thereby stabilizing c-Myc (an oncogenic transcription factor) and promoting tumor formation and malignant cell growth. PP2A is a trimeric protein complex consisting of three subunits: a scaffold subunit, a catalytic subunit and a regulatory subunit. CIP2A specifically interacts with the catalytic subunit of PP2A to inhibit its activity. Inhibition of PP2A activity is a crucial step allowing for the progression of human cell transformation. Further supporting its role as an oncoprotein, CIP2A is known to be overexpressed in colon, gastric, and head and neck squamous cell carcinomas.

**CHROMOSOMAL LOCATION**

Genetic locus: KIAA1524 (human) mapping to 3q13.13.

**SOURCE**

CIP2A (HL1925) is a mouse monoclonal antibody raised against C-terminal CIP2A of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa lightchain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. CIP2A (HL1925) is available conjugated to agarose (sc-80662 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-516102 or m-IgG κ BP-HRP (Cruz Marker); sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

**STORAGE**

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

**APPLICATIONS**

CIP2A (HL1925) is recommended for detection of CIP2A of human origin by Western Blotting (starting dilution 1:200, 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) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for CIP2A shRNA Plasmid (h): sc-77964, CIP2A shRNA Plasmid (h): sc-77964-SH and CIP2A shRNA (h) Lentiviral Particles: sc-77964-V.

Molecular Weight of CIP2A: 90 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SW480 cell lysate: sc-2219 or COLO 320DM cell lysate: sc-2226.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker); sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-25871.

2) Immunoprecipitation: use Protein A/G PLUS-agarose: sc-2003 (0.5 ml agarose/2.0 ml).

3) Immunofluorescence: use m-IgG κ FITC: sc-516140 or m-IgG κ PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Molecular Weight Standards: sc-2035.

**DATA**

![Western blot analysis of CIP2A expression in HeLa (A), SW480 (B) and COLO 320DM (C) whole cell lysates.](image)

![Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic and membrane staining of cells in glomerular and cytoplasmic staining of cells in tubules.](image)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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