**BACKGROUND**

Proteins containing LIM motifs are typically involved in cell fate determination and growth control. A family of proteins designated LIM kinases, including LIMK-1 and LIMK-2, has been identified. LIMK-1 has been shown to regulate the stabilization of F-Actin structures and Cofilin activity, indicating that LIMK-1 plays a role in a signaling pathway involved in the regulation of cell motility and morphogenesis. LIMK-1 inhibits neuronal differentiation of PC12 cells, and is thought to act by interfering with events downstream of MAPK activation. Expression patterns of LIMK-1 and LIMK-2 suggest that these proteins may have different functions during development. A truncated form of LIMK-2 has been identified in adult testis that is thought to arise from an alternative initiation exon.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: LIMK2 (human) mapping to 22q12.2; Limk2 (mouse) mapping to 11 A1.

**SOURCE**

LIMK-2 (H-78) is a rabbit polyclonal antibody raised against amino acids 561-638 mapping at the C-terminus of LIMK-2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

LIMK-2 (H-78) is recommended for detection of LIMK-2 of mouse, rat and 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

LIMK-2 (H-78) is also recommended for detection of LIMK-2 in additional species, including equine, canine, bovine, porcine and avian.


Molecular Weight of LIMK-2: 65 kDa.

Positive Controls: JAR cell lysate: sc-2276, Hep G2 cell lysate: sc-2277 or JEG-3 whole cell lysate: sc-364255.

**STORAGE**

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

**DATA**

![Western blot analysis of LIMK-2 expression](image1)

![Immunofluorescence staining of methanol-fixed HeLa cells](image2)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

**MONOS Satisfaction Guaranteed**

Try LIMK-2 (A-12): sc-365414, our highly recommended monoclonal alternative to LIMK-2 (H-78).