

## YPEL (S-14): sc-99727

### BACKGROUND

YPEL1 (yippee-like 1) is a 119 amino acid protein that localizes to the nucleus and is thought to play a role in the epitheloid conversion of fibroblasts. YPEL1 belongs to a family of yippee-like proteins that include YPEL2, YPEL3 and YPEL4, all of which localize to the nucleus and are widely expressed in both adult and fetal tissue. YPEL3 exists as multiple alternatively spliced isoforms and is thought to be involved in the proliferation and apoptosis of myeloid precursor cells. The family of human YPEL proteins share a high degree of sequence homology with their rodent homologs, suggesting a conserved function between species.

### REFERENCES

- Farlie, P., et al. 2001. YPEL1: a novel nuclear protein that induces an epithelial-like morphology in fibroblasts. *Genes Cells* 6: 619-629.
- Hosono, K., et al. 2004. Identification and characterization of a novel gene family YPEL in a wide spectrum of eukaryotic species. *Gene* 340: 31-43.
- Online Mendelian Inheritance in Man, OMIM™. 2005. Johns Hopkins University, Baltimore, MD. MIM Number: 609724. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Dalmaso, C., et al. 2008. Distinct genetic loci control plasma HIV-RNA and cellular HIV-DNA levels in HIV-1 infection: the ANRS Genome Wide Association 01 study. *PLoS ONE* 3: e3907.
- Kelemen, L.E., et al. 2009. Genetic variation in the chromosome 17q23 amplicon and breast cancer risk. *Cancer Epidemiol. Biomarkers Prev.* 18: 1864-1868.

### SOURCE

YPEL (S-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of YPEL1 of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99727 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

YPEL (S-14) is recommended for detection of YPEL1, YPEL2, YPEL3 and YPEL4 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).

YPEL (S-14) is also recommended for detection of YPEL1, YPEL2, YPEL3 and YPEL4 in additional species, including equine, canine, bovine, porcine and avian.

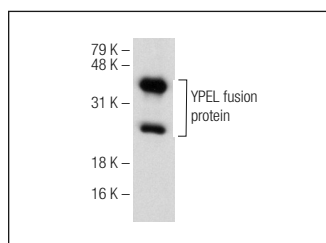
Molecular Weight of YPEL1/2/3/4: 14 kDa.

Positive Controls: Rat spleen extract: sc-2397.

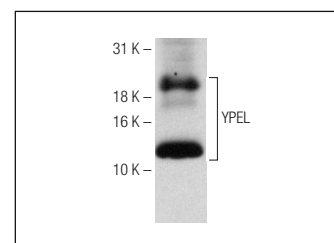
### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### DATA



YPEL (S-14): sc-99727. Western blot analysis of human recombinant YPEL fusion protein.



YPEL (S-14): sc-99727. Western blot analysis of YPEL expression in rat spleen tissue extract.

### 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) or our catalog for detailed protocols and support products.