

## Pam (S-20): sc-84546

### BACKGROUND

Ubiquitination is an important mechanism through which three classes of enzymes act in concert to target short-lived or abnormal proteins for destruction. The three classes of enzymes involved in ubiquitination are the ubiquitin-activating enzymes (E1s), the ubiquitin-conjugating enzymes (E2s) and the ubiquitin-protein ligases (E3s). Pam, also known as MYCBP2 (Myc-binding protein 2), is a 4,640 amino acid nuclear protein that contains one B box-type zinc finger, one DOC domain, one filamin repeat, 5 RCC1 repeats and one RING-type zinc finger. Expressed ubiquitously with highest expression in thymus and brain, Pam is thought to function as an E3 ubiquitin-protein ligase that may be involved in the degradation of a variety of target proteins. Additionally, Pam may also be involved in regulating c-Myc expression, possibly influencing synaptogenesis. Two isoforms of Pam exist due to alternative splicing events.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: MYCBP2 (human) mapping to 13q22.3; Mycbp2 (mouse) mapping to 14 E2.3.

### SOURCE

Pam (S-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Pam 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-84546 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

Pam (S-20) is recommended for detection of Pam of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with isoforms 1 and 2.

Pam (S-20) is also recommended for detection of Pam in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Pam siRNA (h): sc-76038, Pam siRNA (m): sc-155927, Pam shRNA Plasmid (h): sc-76038-SH, Pam shRNA Plasmid (m): sc-155927-SH, Pam shRNA (h) Lentiviral Particles: sc-76038-V and Pam shRNA (m) Lentiviral Particles: sc-155927-V.

Molecular Weight of Pam: 450 kDa.

### 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) 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.

### 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.