

Catalog # PTM-401

## General Information

Clone Number	/
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Conjugate	Unconjugated
Synonyms	Ksu
UniProt ID	/
Immunogen	Succinylated lysine peptides
MW (kDa)	Multiple
Specificity	Anti-Succinyllysine Rabbit pAb detects proteins with succinylated lysine residues. This pan antibody recognizes succinylated lysine independent of its surrounding sequences.

## Product Usage Information

Applications	Dilution	Recommended Species
WB	1:500 – 1:1000	All

## Properties

Purity	Protein A and immunogen affinity purified
Constituents	PBS, Glycerol, BSA
Storage	Store at -20°C. Avoid freeze/thaw cycles.
Stability	Stable for 12 months from date of receipt/reconstitution.

## Target Information

Background	Succinylation is a post-translational modification where a succinyl group (-CO-CH <sub>2</sub> -CH <sub>2</sub> -COOH) is added to a lysine residue of a protein molecule. This modification is found in many proteins, including histones. The potential role of succinylation is under investigation, but as addition of succinyl group changes lysine's charge from +1 to -1 (at physiological pH) and introduces a relatively large structural moiety (100 Da), bigger than acetylation (42 Da) or methylation (14 Da), it is expected to lead to more significant changes in protein structure and function.
Cellular Localization	/

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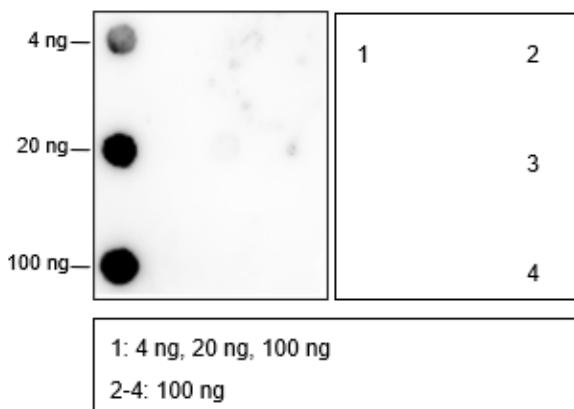
# Anti-Succinyllysine Rabbit pAb



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## Images

### Dot Blot



**Peptide amount:** 4 ng, 20 ng, 100 ng

**Blocking buffer:** 5% NFDM/TBST

**Primary Ab dilution:** 1:2000

**Primary Ab incubation condition:** 2 hours at room temperature

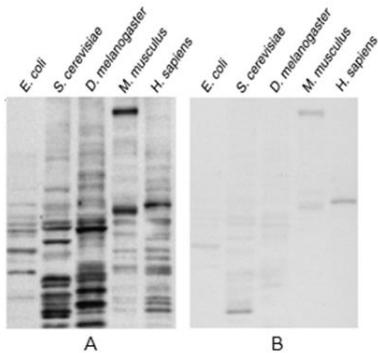
**Secondary Ab:** Goat Anti-Rabbit IgG H&L pAb (HRP Conjugate)

**Exposure time:** 30 seconds

The list of peptides used in the experiment is provided in the table below.

No.	Peptide	No.	Peptide
Lane 1	Ksu library	Dot 2	Kmal library
Dot 3	Kglu library	Dot 4	Control library

### WB



**Lysates:** E. coli, S. cerevisiae, D. melanogaster, mouse, and human cells

**Protein loading amount:** 20 µg

**Blocking buffer:** 5% NFDM/TBST

**Primary Ab dilution:** 1:1000

**Primary Ab incubation condition:** 2 hours at room temperature

**Secondary Ab:** Goat Anti-Rabbit IgG H&L pAb (HRP Conjugate)

**Exposure time:** 60 seconds

**Predicted band size:** Multiple

**Observed band size:** Multiple

**MODIFICATIONS** 3-NT: 3-nitrotyrosine ac: acetylated bhb: β-hydroxybutyrylated  
bu: butyrylated bz: benzoylated cel: carboxyethylated cit: citrulline cr: crotonylated  
glu: glutarylated hib: 2-hydroxyisobutyrylated la: lactylated mal: malonylated  
me: methylated mea: methacrylated p: phosphorylated pr: propionylated  
ser: serotonyl su: succinylated ub: ubiquitinated un: unmodified

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