

Anti-Succinyllysine Rabbit pAb



Catalog # PTM-401

General Information

Host species	Rabbit		
Clonality	Polyclonal		
Clone number	/		
Synonym	Ksu		
Immunogen species	UniProt	MW (kDa)	Applications
/	/	Multiple	WB, IHC-P, ICC/IF, IP

Product Usage Information

Application	Dilution	Recommended species
WB	1:500-1:1000	All
IHC-P	1:100-1:500	Human
ICC/IF	1:50-1:100	Human
IP	1:25-1:100	All species expected

Properties

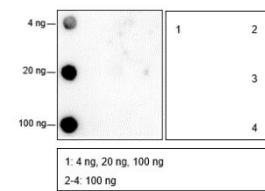
Storage	Store at -20 °C. Avoid freeze / thaw cycles.
Stability	Stable for 12 months from date of receipt / reconstitution
Constituents	PBS, Glycerol, BSA
Purity	Antibodies are purified by protein A-conjugated agarose followed by succinyl lysine agarose affinity chromatography.
Isotype	IgG

Target Information

Function	Succinylation is a posttranslational modification where a succinyl group (-CO-CH ₂ -CH ₂ -CO ₂ H) 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 location	/

Images

Dot Blot



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 (HRP)

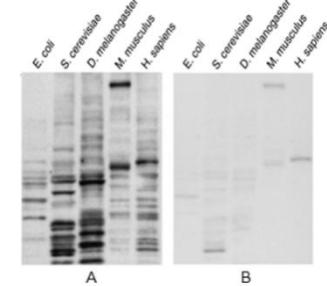
Immunogen peptide quantity: 4 ng, 20 ng, 100 ng

Exposure time: 30 s

The list of peptides is included in the table below:

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

WB



Blocking buffer: 5% NFDM/TBST

Primary ab dilution: 1:1000

Primary ab incubation condition: (A)

PTM-401+unmodified BSA peptides, (B)

PTM-401+ succinylated BSA peptides, 2 hours at room temperature

Secondary ab: Goat Anti-Rabbit IgG H&L (HRP)

Lysate: E.coli, S.cerevisiae, D.melanogaster, M.musculus, H. sapiens

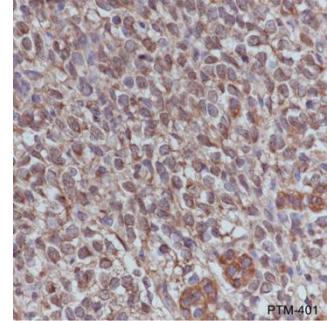
Protein loading quantity: 20 µg

Exposure time: 60 s

Predicted MW: Multiple kDa

Observed MW: Multiple kDa

IHC-P



Tissue: Human neuroblastoma

Section type: Formalin fixed & Paraffin-embedded section

Retrieval method: High temperature and high pressure

Retrieval buffer: Tris/EDTA buffer, pH 9.0

Primary ab dilution: 1:500

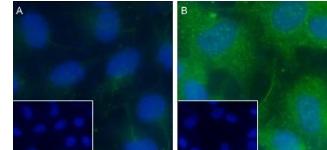
Primary ab incubation condition: 1 hour at room temperature

Secondary ab: Anti-Rabbit and Mouse Polymer HRP (Ready to use)

Counter stain: Hematoxylin (Blue)

Comment: Color brown is the positive signal for PTM-401

ICC/IF



Cell line: A. HeLa; B. HeLa+SBA

Fixative: 4% Paraformaldehyde

Permeabilization: 0.1% TritonX-100

Primary ab dilution: 1:100

Primary incubation condition: 4°C overnight

Secondary ab: Goat Anti-Rabbit IgG

Nuclear counter stain: DAPI (Blue)

Comment: Color green is the positive signal for PTM-401

APPLICATIONS WB: Western blot IP: Immunoprecipitation
IHC-P: Immunohistochemistry-Paraffin ChIP: Chromatin Immunoprecipitation
ICC/IF: Immunocytochemistry/Immunofluorescence FC: Flow Cytometry

MODIFICATIONS ac: acetylated bhb: β-hydroxybutyrylated bu: butyrylated
bz: benzoylated cr: crotonylated hib: 2-hydroxyisobutyrylated la: lactylated
pr: propionylated su: succinylated un: unmodified

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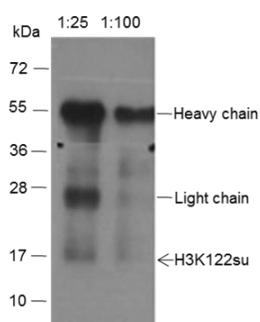
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Catalog # PTM-401

IP

**IP of Mouse liver extracts**

IP ab incubation condition: PTM-401, 4°C overnight, 1:25, 1:100 dilution

WB primary ab incubation condition:

PTM-413, room temperature 2h, 1:1000

dilution

Secondary ab: Anti-Rabbit IgG for IP (HRP)**Blocking buffer and concentration:** 5%

NFDM/TBST

Diluting buffer and concentration: 5%

NFDM/TBST

Lane 1: IP with PTM-401 (1:25)**Lane 2:** IP with PTM-401 (1:100)**Observed MW:** 17 kDa**Exposure time:** 60 s

Research Use

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

APPLICATIONS WB: Western blot IP: Immunoprecipitation
IHC-P: Immunohistochemistry-Paraffin ChIP: Chromatin Immunoprecipitation
ICC/IF: Immunocytochemistry/Immunofluorescence FC: Flow Cytometry

MODIFICATIONS ac: acetylated bhb: β-hydroxybutyrylated bu: butyrylated
bz: benzoylated cr: crotonylated hib: 2-hydroxyisobutyrylated la: lactylated
pr: propionylated su: succinylated un: unmodified

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