Anti-Butyryllysine Rabbit mAb

Catalog # PTM-301RM

General Information

Clone Number	PSPTM-419-17
Host Species	Rabbit
Clonality	Recombinant Monoclonal
Isotype	IgG
Conjugate	Unconjugated
Synonyms	Kbu
UniProt ID	/
Immunogen	Butyrylated lysine peptides
MW (kDa)	Multiple
Specificity	Anti-Butyryllysine Rabbit mAb detects proteins post-translationally modified by butyrylation on lysine residues. This pan antibody recognizes butyrylated lysine independent of its surrounding sequences.

Product Usage Information

Applications	Dilution	Recommended Species
WB	1:500 - 1:1000	Human, Mouse, Rat
IHC-P	1:100 - 1:500	Human
ICC/IF	1:100	Human

Properties

Purity	Protein A 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 Butyrylation of lysine, structurally similar to lysine acetylation and lysine propionylation, is a newly identified reversible modification controlling protein activity. With integrated proteomic approaches and biochemistry analysis, lysine butyrylation has been well demonstrated in both prokaryotes and eukaryotes in wide ranges of proteins including histones and non-histone substrates. Given the facts that many lysine residues in histones and non-histone substrates, such as p53, p300/CBP, are butyrylated, lysine butyrylation may play a vital role in epigenetic modulation by impacting on chromatin dynamics and plasticity, DNA transcriptional regulation and tumorigenesis, etc.

Cellular Localization /

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

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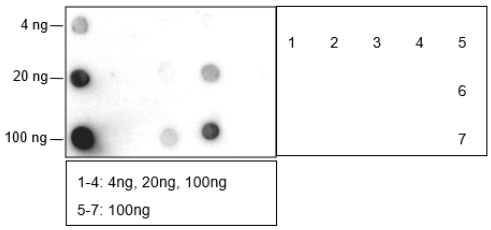
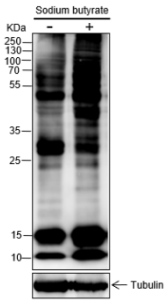
Images

Dot Blot

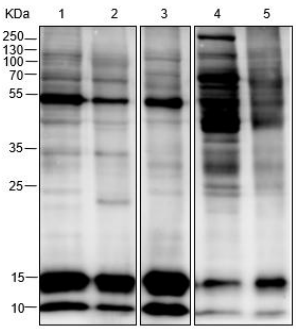


Peptide amount: 4 ng, 20 ng, 100 ng
Blocking buffer: 5% NFDM/TBST
Primary Ab dilution: 1:2000
Primary Ab incubation: 2 hours at room temperature
Secondary Ab: Goat Anti-Rabbit IgG H&L pAb (HRP Conjugate)
Exposure time: 30 seconds
The list of peptides used in the experiment is provided below.
Lane 1: Butyryllysine peptide library. Lane 2: Acetyllysine peptide library.
Lane 3: Propionyllysine peptide library. Lane 4: Crotonyllysine peptide library.
Dot 5: 2-Hydroxyisobutyryllysine peptide library.
Dot 6: β-Hydroxybutyryllysine peptide library. Dot 7: Unmodified peptide library.

WB

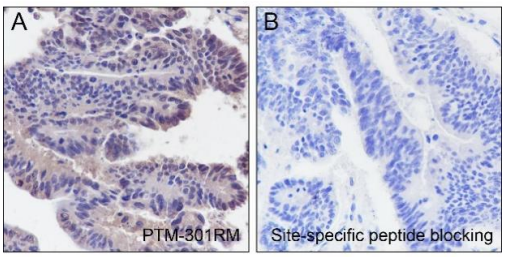


Lysates: (-) HeLa cells; (+) HeLa cells treated with 30 mM sodium butyrate for 4 hours
Protein loading amount: 20 µg
Blocking buffer: 5% NFDM/TBST
Primary Ab dilution: 1:1000
Primary Ab incubation: 2 hours at room temperature
Secondary Ab: Goat Anti-Rabbit IgG H&L pAb (HRP Conjugate)
Exposure time: 60 seconds
Predicted band size: Multiple
Observed band size: Multiple



Lysates: 1. HeLa; 2. NIH-3T3; 3. BRL; 4. Mouse liver; 5. Mouse kidney
Protein loading amount: 20 µg
Blocking buffer: 5% NFDM/TBST
Primary Ab dilution: 1:1000
Primary Ab incubation: 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

IHC-P



Tissue: Human colon cancer
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: 1 hour at room temperature
Secondary Ab: Anti-Rabbit and Mouse Polymer HRP (Ready to Use)
Counter stain: Hematoxylin (blue)
Description: The brown color represents the positive signal observed with PTM-301RM.

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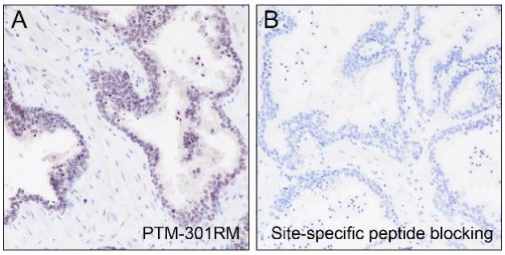
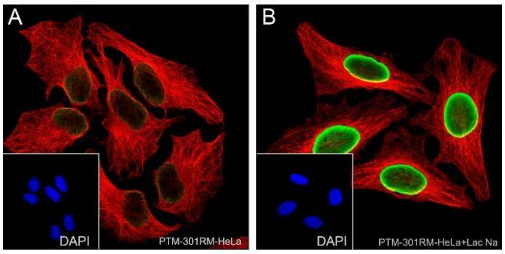


Tissue: Human prostate hyperplasia
Section type: Formalin-fixed & paraffin-embedded section
Retrieval method: High temperature and high pressure
Retrieval buffer: Tris/EDTA buffer, pH 9.0
Primary Ab dilution: 1:500
Primary Ab incubation: 1 hour at room temperature
Secondary Ab: Anti-Rabbit and Mouse Polymer HRP (Ready to Use)
Counter stain: Hematoxylin (blue)
Description: The brown color represents the positive signal observed with PTM-301RM.

ICC/IF



Samples: (A) HeLa cells; (B) HeLa cells treated with 30 mM sodium butyrate for 4 hours
Fixative: 4% Paraformaldehyde
Permeabilization: 0.1% Triton X-100
Primary Ab dilution: 1:100
Primary Ab incubation: 4°C overnight
Secondary Ab: Goat Anti-Rabbit IgG
Nuclear counter stain: DAPI (blue)
Counter stain: Tubulin (red)
Description: The green color represents the positive signal observed with PTM-301RM.

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