

# Anti-Butyryllysine Rabbit pAb

Catalog # PTM-301



## General Information

**Host species** Rabbit  
**Clonality** Polyclonal  
**Clone number** /  
**Synonym** Kbu

Immunogen species	UniProt	MW (kDa)	Applications
Human	/	Multiple	WB

## Product Usage Information

**Application** Dilution Recommended species  
WB 1:500-1:2000 All (Predicted)

## 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 butyrylated-lysine agarose affinity chromatography.  
**Isotype** IgG

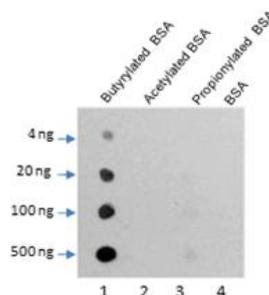
## Target Information

**Function** 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 location** /

## Images

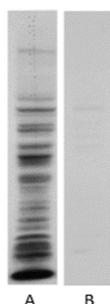
### Dot Blot



**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, 500 ng  
**Exposure time:** 60 s  
The list of peptides is included in the table below:

No.	Peptide	No.	Peptide
Lane 1	butyrylated BSA	Lane 2	acetylated BSA
Lane 3	propionylated BSA	Lane 4	BSA

### WB



**Blocking buffer:** 5% NFDM/TBST  
**Primary ab dilution:** 1:2000  
**Primary ab incubation condition:** lane A: PTM-301+unmodified BSA peptides, lane B: PTM-301+butyrylated BSA peptides, 2 hours at room temperature  
**Secondary ab:** Goat Anti-Rabbit IgG H&L (HRP)  
**Lysate:** HeLa  
**Protein loading quantity:** 20 µg  
**Exposure time:** 60 s  
**Predicted MW:** Multiple kDa  
**Observed MW:** Multiple kDa

## Research Use

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