

Product datasheet for TA379601S

pan Kme2 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, ICC/IF, IHC, IP, WB

Recommended Dilution: WB,1:500 - 1:1000

IHC-P,1:50 - 1:100 IF/ICC,1:50 - 1:100

ELISA,Recommended starting concentration is 1 μg/mL. Please optimize the concentration

based on your specific assay requirements.

Reactivity: Human, Mouse, Rat, Other (Wide Range)

Modifications: Pan DiMethyl-lysine

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Formulation: Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C. Avoid freeze / thaw cycles.

Stability: Shelf life: one year from despatch.



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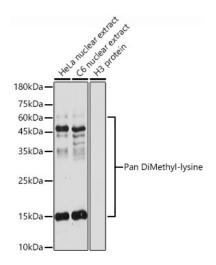
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Background:

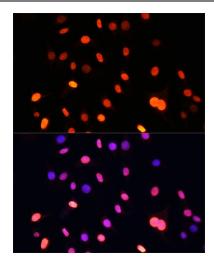
Methylation is a major post-translational modification (PTM) generated by methyltransferase on target proteins, protein methylation plays important regulatory roles in gene expression, protein activity and stability, and signal transduction. Methylation can occur on specific lysine or arginine residues localized within regulatory domains in both histone and nonhistone proteins, thereby allowing distinguished properties of the targeted protein. Lysine can be methylated to different degrees, including mono-, di-, or trimethylation, which reflects its functional diversity and regulatory complexity compared to other PTMs. Lys9 of histone H3 is mono- or di-methylated by G9A/GLP and tri-methylated by SETDB1 to activate transcription. Tumor suppressor p53 is regulated by methylation of at least four sites. p53-mediated transcription is repressed following mono-methylation of p53 at Lys370 by SMYD2; Dimethylation at the same residue further inhibits p53 by preventing association with 53BP1. Concomitant di-methylation at Lys382 inhibits p53 ubiquitination following DNA damage. Dimethylation at Lys373 by G9A/GLP inhibits p53-mediated apoptosis and correlates with trimethylation of histone H3 Lys9 at the p21 promoter.

Product images:

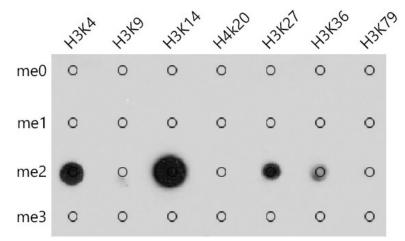


Dot-blot analysis of H3K4me0





Dot-blot analysis of all sorts of methylation peptides using Pan DiMethyl-lysine antibody ([TA379601]) at 1:1000 dilution.



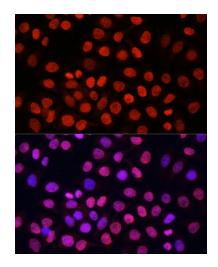
Western blot analysis of various lysates using Pan DiMethyl-lysine Rabbit pAb ([TA379601]) at 1:500 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

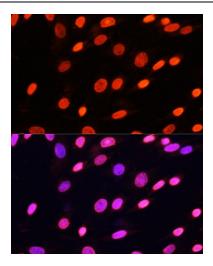
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit . Exposure time: 10s.



Immunofluorescence analysis of C6 cells using Pan DiMethyl-lysine Rabbit pAb ([TA379601]) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.





Immunofluorescence analysis of HeLa cells using Pan DiMethyl-lysine Rabbit pAb ([TA379601]) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.