

Pan-Crotonyl-K Rabbit pAb

Catalog NO.: A20502

Basic Information

Observed MW

10-250kDa

Calculated MW

Category

Other Modified Antibodies

Applications

WB, ELISA

Cross-Reactivity

Human, Mouse, Rat

Conjugation

Unconjugated

Background

Lysine crotonylation (Kcr) was first discovered about 10 years ago, as a PTM of histone. It was revealed that Kcr is an evolutionarily conserved and common PTM that occurs in both core histone and some non-histone proteins in a variety of organisms. Similar to other types of PTM, Kcr is a reversible modification. The classic histone acetyltransferases (HATs), p300/CBP, PCAF, and MOF, are responsible for most crotonylation events, while the histone deacetylases (HDACs) HDAC1/2/3 and SIRT1/2/3 reverse these reactions . The chromodomain protein CDYL acts as a crotonyl-CoA hydratase to negatively regulate histone Kcr by reducing substrate supply. CDYL-regulated Kcr of RPA1 plays an important role in homologous recombination (HR)-mediated DNA repair (23), while HDAC-regulated histone crotonylation is reduced after DNA damage .

Recommended Dilutions

WB 1:500 - 1:1000

ELISA

Recommended starting concentration is 1 µg/mL.
Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID **Swiss Prot**

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

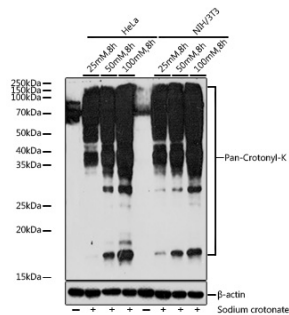
Contact

Product Information

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☒		service@abclonal.com
☒		www.abclonal.com

Source	Isotype	Purification
Rabbit	IgG	Affinity purification
Storage		
Store at -20°C. Avoid freeze / thaw cycles.		
Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.		

Validation Data



Western blot analysis of various lysates using Pan-Crotonyl-K Rabbit pAb (A20502) at 1:1000 dilution. HeLa and NIH/3T3 cells were treated with Sodium crotonate for 8 hours.

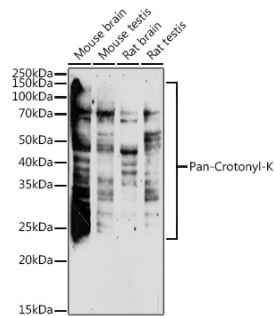
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25μg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 180s.



Western blot analysis of various lysates using Pan-Crotonyl-K Rabbit pAb (A20502) at 1:1000 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25μg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 180s.

