

DATASHEET

Version: 2016-08-17

Histone H4 Antibody (Acetyl-K¹²), pAb, Rabbit

Cat. No.: A01310-40

Size: 40 µg

Synonyms: Rabbit Anti-Acetyl-Histone H4 (Lys¹²) pAb;

Description:

Histone H4 is a core component of nucleosome. It facilitates nucleosome wrapping and DNA compacting into chromatin, thereby limiting the DNAs accessibility to the cellular machineries for which DNA is required as a template. Histones play a central role in transcription regulation, DNA repair / replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, of which the process is called the histone code, and nucleosome remodeling.

GenScript **Rabbit Anti-Histone H4 (Acetyl-K¹²) Polyclonal Antibody** is developed in rabbit using a KLH-coupled synthetic acetylpeptide corresponding to residues surrounding Lys12 of human Histone H4 (Swiss Prot: Q99525).

Immunogen: KLH-coupled synthetic acetylpeptide corresponding to residues surrounding Lys12 of human Histone H4 (Swiss Prot: Q99525).

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.

Ig Subclass: Rabbit IgG

Specificity: GenScript Rabbit Anti-Histone H4 (Acetyl-K¹²)

Polyclonal Antibody detects endogenous levels of human and mouse histone H4 only when acetylated at Lys12. It is predicted to react with rat based on sequence homology.

Purification: Immunoaffinity chromatography using acetylpeptide, cross-adsorbed with corresponding non-acetylpeptide

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.05–0.2 µg/ml

Western blot: 0.5–1 µg/ml

Other Applications: user-optimized

Species Reactivity: Human and mouse. This product has not yet been tested with other species.

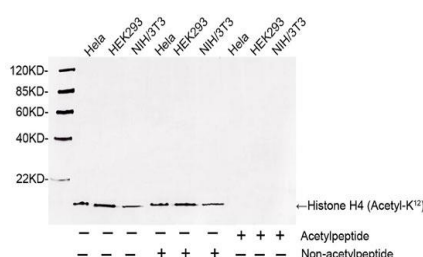
Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Example



Western blot analysis of lysates using Rabbit Anti-Histone H4 (Acetyl-K12) Polyclonal Antibody (GenScript, A01310, 1 µg/ml). The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.

Predicted molecular weight: 11 KD

Observed molecular weight: 11 KD

