

Product Data Sheet

Purified anti-Histone H4

Catalog # / Size: 602001 / 50 µl (5 Western blots)

Clone: Poly6020

Isotype: Rabbit IgG

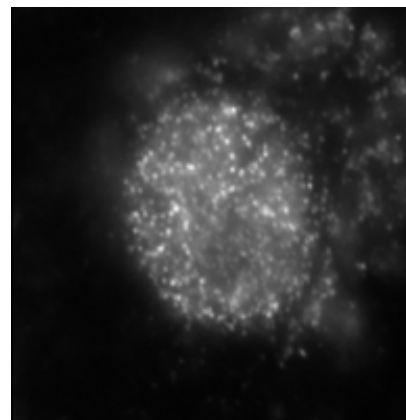
Immunogen: Recombinant (partial), N-terminal

Reactivity: Human

Preparation: The antibody was purified by antigen-affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.

Storage: Upon receipt, store frozen at -20° C.



Hela cells were fixed in 4% paraformaldehyde, washed in PBS, and permeabilized using 0.5% Triton X-100 for 5 minutes prior to antibody staining. Cells were incubated with a 1:50 dilution of Histone H4 antibody (Poly6020) for 1 hr, washed twice using 0.1% Triton X-100 in PBS and incubated with goat anti-rabbit conjugated to Alexa Fluor® 488. After washing twice in 0.1% Triton X-100 in PBS, cells were mounted and examined on a fluorescent scope. 100 X magnification.

Applications:

Applications: WB, IF

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

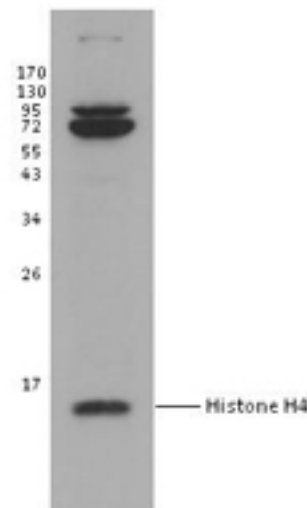
Application References: 1. Takada, Y., *et al.* 2011. *Development* 138:4207. PubMed.
2. Lam FW, *et al.* 2013. *Thromb Res.* PubMed.

Description: Histone H4 is an 11.4 kD nuclear protein that is a component of an octamer containing pairs of each of four core histones (H2A, H2B, H3, H4). The core histones create nucleosome structure of chromosomal fiber in eukaryotes and are dynamic in gene regulation. Histone H4 shows transcriptional regulation that is both cell cycle-dependent and -independent. Histone H4 is modified by phosphorylation, acetylation, ribosylation, and methylation. Histone H4 has been shown to interact with other histone acetyltransferases, histone deacetylases, and PARP. The Poly6020 antibody has been shown to be useful for the detection of human histone H4 by Western blot and immunofluorescence staining.

Antigen References: 1. Wu R, *et al.* 1981. *Cell* 27:321.
2. Sierra F, *et al.* 1983. *Nucleic Acids Res.* 11:7069.
3. Turner B, *et al.* 1989. *FEBS Lett.* 253:141.
4. Strahl B, *et al.* 2000. *Nature* 403:41.

Related Products:

Product	Clone	Application
Purified anti-PARP	5A5	IF, WB
Purified anti-Histone H3	Poly6019	WB
Purified anti-HDAC1	Poly6074	WB, IF
Purified anti-HDAC2	Poly6075	WB
Purified anti-HDAC3	Poly6076	WB, IF
Purified anti-HDAC4	Poly6077	WB, IF
Purified anti-HDAC6	Poly6078	WB
Purified anti-HDAC7	Poly6079	WB
HRP Donkey anti-rabbit IgG (minimal x-reactivity)	Poly4064	ELISA, IHC, WB



Hela cell nuclear extracts were resolved by electrophoresis, transferred to nitrocellulose, and probed with anti-Histone H4 antibody (clone Poly6020). Proteins were visualized using a HRP-conjugated anti-rabbit-IgG secondary and chemiluminescence detection



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