

## Recombinant Histone H3 Monoclonal Antibody

catalog number: AN300856L

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

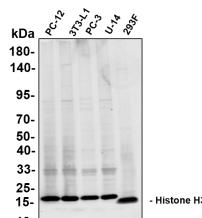
|                     |   |
|---------------------|---|
| <b>Reactivity</b>   | Human;Mouse;Rat   |
| <b>Immunogen</b>    | Recombinant Human Histone H3 protein                            |
| <b>Host</b>         | Rabbit  |
| <b>Isotype</b>      | IgG,κ   |
| <b>Clone</b>        | B803  |
| <b>Purification</b> | Protein A   |
| <b>Buffer</b>       | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |

### Applications

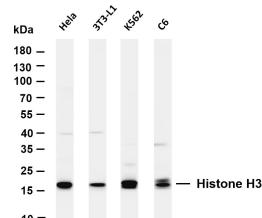
### Recommended Dilution

|                    |                |
|--------------------|----------------|
| <b>IHC</b>         | 1:5000-1:20000 |
| <b>WB</b>          | 1:5000-1:20000 |
| <b>IF</b>          | 1:200-1:1000   |
| <b>ELISA</b>       | 1:5000-1:20000 |
| <b>IP</b>          | 1:50-1:200     |
| <b>CHIP</b>        | 1:50-1:100     |
| <b>Cut&amp;Tag</b> | 1:50-1:100     |

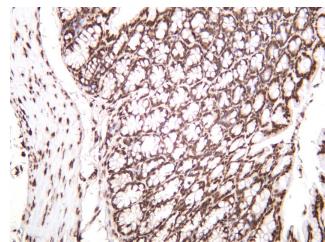
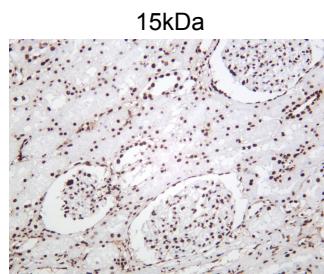
### Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night PAGE, and the membrane was blotted with anti-Histone H3 with a 1:10000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody was used to detect the antibody. Lane1: PC-12 - Rat adrenal pheochromocytoma Lane2: 3T3-L1 - Mouse embryonic fibroblast Lane3: PC-3 - Human prostate adenocarcinoma Lane4: U-14 - Mouse cervical carcinoma Lane5: 293F - HEK293 derivative, adapted for suspension culture Predicted band size: 15kDa Observed band size:



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night PAGE, and the membrane was blotted with anti-Histone H3 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: 3T3-L1 Lane 3: K562 Lane 4: C6 Predicted band size: 15kDa Observed band size: 15kDa



### For Research Use Only

Toll-free: 1-888-852-8623

Web: [www.elabscience.com](http://www.elabscience.com)

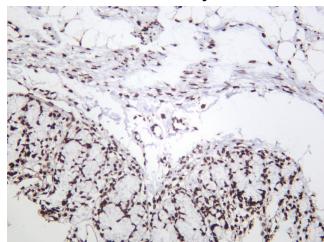
Tel: 1-832-243-6086

Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

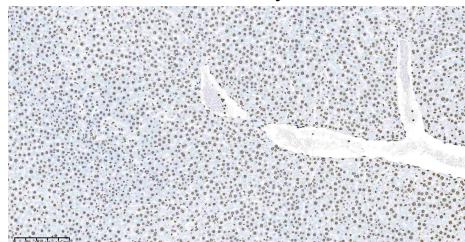
Fax: 1-832-243-6017

Rev. V1.2

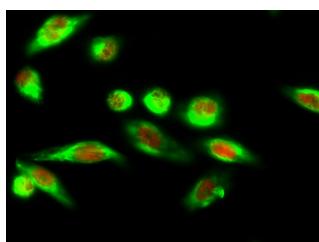
Human kidney was stained with anti-Histone H3 rabbit antibody



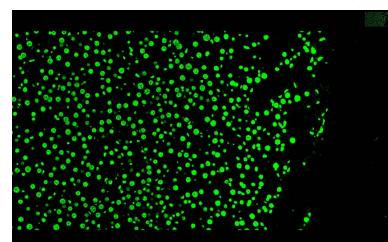
Mouse colon was stained with anti-Histone H3 rabbit antibody



Rat colon was stained with anti-Histone H3 rabbit antibody



Rat liver was stained with anti-Histone H3 Rabbit antibody



Immunofluorescence analysis of Hela cell. 1, Histone H3 Antibody(red) was diluted at 1:200(4°C overnight). LC3A mouse Monoclonal Antibody(5G10)(green) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit Alexa Fluor 594 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 was diluted at 1:1000(room temperature, 50min).

Rat liver was stained with anti-Histone H3 Rabbit antibody

### Preparation & Storage

**Storage** Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

**Shipping** Ice bag

### Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

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