

## ATAGENIX LABORATORIES

# Catalog Number:ATMA10165Mo Anti Histone-H3 mouse monoclonal antibody

#### **Product overview**

product name Anti Histone-H3 mouse monoclonal antibody

catalog No. ATMA10165Mo

**Category** Primary antibody

**Host** Mouse

Species specificity Human,other species was not test

Tested applications WB

**Clonality** Monoclonal

Clone No. 5F8

**Conjugation** Unconjugated

**Immunogen** Sythesis peptide from C-terminal.

Alternative Names H3 histone family member E pseudogene,H3 histone family, member A,HIST1H3B.

Uniprot ID P68431

Product performance

Form Liquid

**Buffer** Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.

Storage Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 4 °C

for frequent use. Store at -20 to -80 °C for twelve months from the date of receipt.

Concentration 0.5mg/ml

**Isotype** IgG2b

MW 15kDa

**Purity** Protein G purification

**Dilution range** 

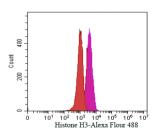
WB: 1:2000-1:8000

#### Product experiment picture



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 $1\times10^{\circ}6\,$  THP-1 cells were stained with 1:100 Histone H3 antibody (purple) and control antibody (red). Fixed with 4% PFA blocked with BSA (30min). Alexa Fluor 488-conjugated AffiniPure Goat anti-mouse IgG(H+L) with dilution 1:100.

# 1 2 3 4 5 75kDa 60kDa 45kDa 35kDa 25kDa 15kDa

Lysate: 30µg/lane Lane 1:293T Lane 2:HeLa Lane 3:U87 Lane 4:A2780 Lane 5:SH-5YSY

Predicted band size:15kDa Observed band size:15kDa

Various lysates were subjected to SDS PAGE followed by western blot with Histone H3 antibody at dilution of 1:2000

### Product background

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.