A19645

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MonoMethyl-Histone H3-R2 Rabbit mAb

Catalog No.: A19645 Recombinant

Basic Information

Observed MW
17kDa

Calculated MW
16kDa

Category
SMab Recombinant Monoclonal Antibody

Applications
WB,ELISA,DB,CUT&Tag

Cross-Reactivity
Human,Mouse,Rat,Other (Wide Range Predicted)

CloneNo number
ARC0124

Background

This gene encodes a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. One study also suggests that this protein acts as a transcriptional repressor independent of its kinase activity. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene.

Recommended Dilutions

DB	1:500 - 1:1000
WB	1:500 - 1:1000
CUT&Tag	10^5 cells /1 μg

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
A synthetic monomethylated peptide around R2 of human Histone H3 (Q16695).

Synonyms
H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; MonoMethyl-Histone H3-R2

Contact

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Product Information

Source
Rabbit

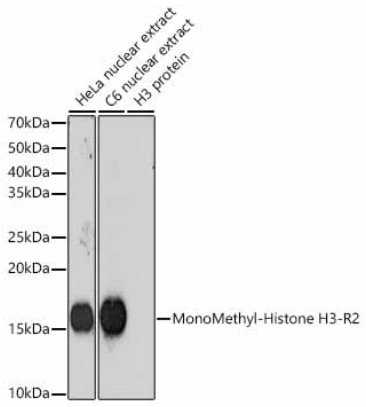
Isotype
IgG

Purification
Affinity purification

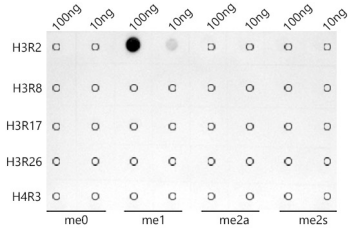
Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data

CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10^5 K562 cells with 1 µg MonoMethyl-Histone H3-R2 antibody (A19645) , along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of H3R2me1 in representative gene loci (MYOD1), as shown in figure.



Western blot analysis of various lysates using MonoMethyl-Histone H3-R2 Rabbit mAb (A19645) at 1:1000 dilution.
Secondary antibody: HRP 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.



Dot-blot analysis of all sorts of peptides using MonoMethyl-Histone H3-R2 antibody (A19645) at 1:1000 dilution.