MonoMethyl-Histone H3-R2 Rabbit mAb

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Catalog No.: A19645 Recombinant

Basic Information

Observed MW

17 kDa

Calculated MW

15 kDa

Category

Primary antibody

Applications

WB,DB,ELISA,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

WB 1:500 - 1:1000

DB 1:500 - 1:1000

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay

requirements.

CUT&Tag 10⁵ cells /1 μg

Immunogen Information

Gene ID Swiss Prot8290/8350
Q16695/P68431

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

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

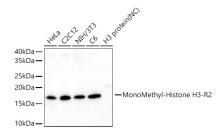
SourceIsotypePurificationRabbitIgGAffinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of various lysates using MonoMethyl-Histone H3-R2 Rabbit mAb (A19645) at 1:1000 dilution incubated at room temperature for 1.5 hours.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020). Negative control (NC): H3 protein.

Exposure time: 60 s.



	,oond	voug	,oond	10ng	100ng	10ng	100ng	10ng
H3R2	О	0	•	0	D	0	0	D
H3R8	0	0	0	0	0	0	0	0
H3R17	0	0	0	О	D	0	0	D
H3R26	0	0	0	0	0	0	0	0
H4R3	0	0	0	О	0	0	0	0
	me0		me1		me2a		me2s	

CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10^5 K562 cells with 1 μ g 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.

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