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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

H3F3B monoclonal antibody (M01), clone 2D7-H1

Catalog # : H00003021-M01

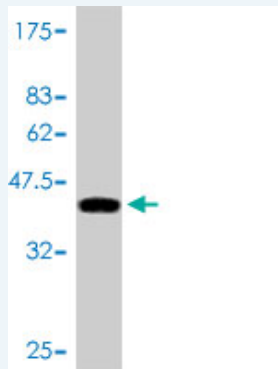
規格 : [100 ug]

[List All](#)

Specification

Product Description:	Mouse monoclonal antibody raised against a full length recombinant H3F3B.
Immunogen:	H3F3B (AAH17558, 1 a.a. ~ 136 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence:	MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLPFQRLVREIAQDFKTDLRFQSA AIGALQEASEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA
Host:	Mouse
Reactivity:	Human
Isotype:	IgG1 kappa

Quality Control Testing: Antibody Reactive Against Recombinant Protein.



Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

MSDS: [Download](#)

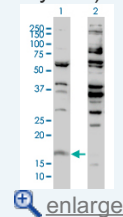
Datasheet: [Download](#)

Publication Reference

- [EP400 Deposits H3.3 into Promoters and Enhancers during Gene Activation.](#) Pradhan SK, Su T, Yen L, Jacquet K, Huang C, Cote J, Kurdistani SK, Carey MF. *Molecular Cell*. 2015 Dec 6.
- [Chromatin and Transcription Transitions of Mammalian Adult Germline Stem Cells and Spermatogenesis.](#) Hammoud SS, Low DH, Yi C, Carrell DT, Guccione E, Cairns BRC. *Cell Stem Cell*. 2014 May 14. pii: S1934-5909(14)00143-X. doi: 10.1016/j.stem.2014.04.006.
- [Histone variant H3.3 maintains a decondensed chromatin state essential for mouse preimplantation development.](#)

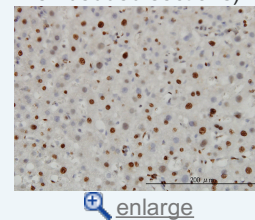
Application Image

Western Blot (Transfected lysate)



Western Blot (Recombinant protein)

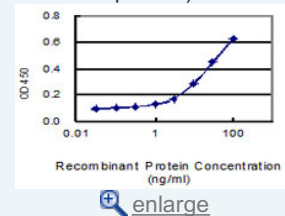
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



Immunofluorescence



Sandwich ELISA (Recombinant protein)



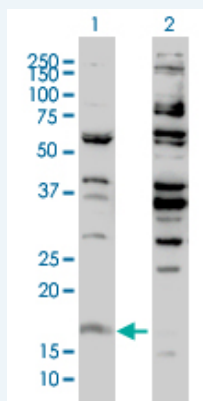
ELISA

Lin CJ, Conti M, Ramalho-Santos M. Development. 2013 Sep;140(17):3624-34. doi: 10.1242/dev.095513. Epub 2013 Jul 31.

4. [Drosophila Yemanuclein and HIRA Cooperate for De Novo Assembly of H3.3-Containing Nucleosomes in the Male Pronucleus.](#)
Orsi GA, Algazery A, Meyer RE, Capri M, Sapey-Triomphe LM, Horard B, Gruffat H, Couble P, Ait-Ahmed O, Loppin B. PLoS Genet. 2013 Feb;9(2):e1003285. doi: 10.1371/journal.pgen.1003285. Epub 2013 Feb 7.
5. [HIRA dependent H3.3 deposition is required for transcriptional reprogramming following nuclear transfer to Xenopus oocytes.](#)
Jullien J, Astrand C, Szenker E, Garrett N, Almouzni G, Gurdon J. Epigenetics Chromatin. 2012 Oct 29;5(1):17. [Epub ahead of print]
6. [A Developmental Requirement for HIRA-Dependent H3.3 Deposition Revealed at Gastrulation in Xenopus.](#)
Szenker E, Lacoste N, Almouzni G. Cell Reports (2012), doi:10.1016/j.celrep.2012.05.006
7. [The death-associated protein DAXX is a novel histone chaperone involved in the replication-independent deposition of H3.3.](#)
Drane P, Ouararhni K, Depaux A, Shuaib M, Hamiche A. Genes Dev. 2010 Jun 15;24(12):1253-65. Epub 2010 May 26.

Applications


Western Blot (Transfected lysate)



Western Blot analysis of H3F3B expression in transfected 293T cell line by H3F3B monoclonal antibody (M01), clone 2D7-H1.

Lane 1: H3F3B transfected lysate (15 kDa).

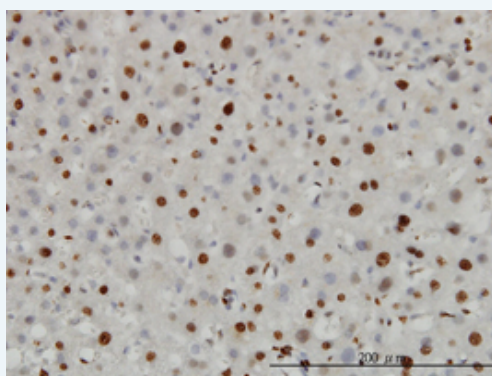
Lane 2: Non-transfected lysate.

 [Protocol Download](#)

Western Blot (Recombinant protein)


 [Protocol Download](#)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

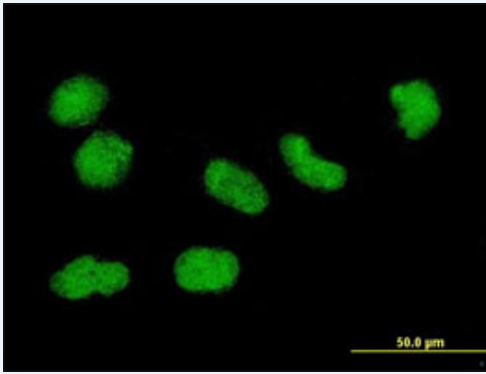


 [enlarge this image](#)

Immunoperoxidase of monoclonal antibody to H3F3B on formalin-fixed paraffin-embedded human liver. [antibody concentration 3 μ g/ml]

 [Protocol Download](#)

Immunofluorescence

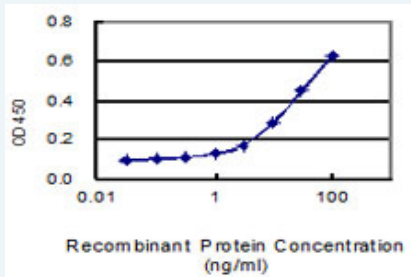


[enlarge this image](#)

Immunofluorescence of monoclonal antibody to H3F3B on HeLa cell . [antibody concentration 10 ug/ml]

[Protocol Download](#)

Sandwich ELISA (Recombinant protein)



Detection limit for recombinant GST tagged H3F3B is 1 ng/ml as a capture antibody.

[Protocol Download](#)

ELISA

Gene Information

Entrez GeneID: [3021](#)

GeneBank [BC017558](#)

Accession#:

Protein [AAH17558](#)

Accession#:

Gene Name: H3F3B

Gene Alias: H3.3B,H3F3A

Gene Description: H3 histone, family 3B (H3.3B)

Description:

Omim ID: [601058](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded is a member of the histone H3 family. [provided by RefSeq]

Other Designations: H3 histone, family 3A,H3 histone, family 3B

Gene Pathway

Systemic lupus erythematosus

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