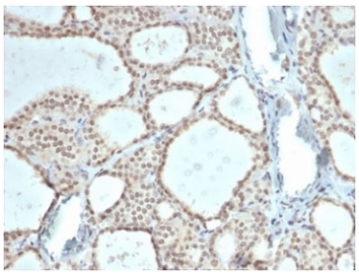
ZHX3 Antibody / Transcriptional Regulation Marker [clone PCRP-ZHX3-1G3] (V9643)

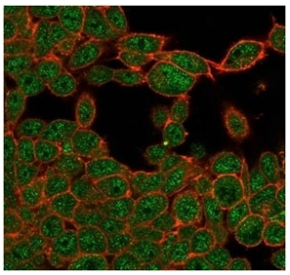
Catalog No.	Formulation	Size
V9643-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9643-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9643SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

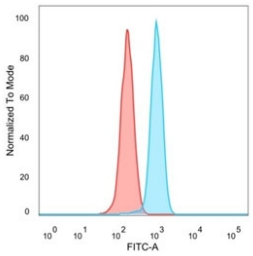
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	PCRP-ZHX3-1G3
Purity	Protein A/G affinity
UniProt	Q9H4I2
Localization	Nucleus
Applications	ELISA (order BSA-free format for coating) Flow cytometry: 1-2ug/million cells Immunofluorescence: 1-2ug/ml Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This ZHX3 Antibody / Transcriptional Regulation Marker is available for research use only.



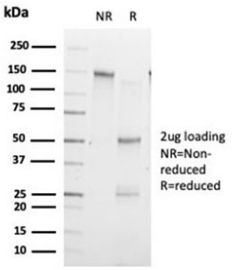
ZHX3 Antibody Thyroid IHC. Immunohistochemistry analysis of FFPE human thyroid tissue stained with ZHX3 Antibody / Transcriptional Regulation Marker (clone PCRP-ZHX3-1G3). Strong nuclear HRP-DAB brown staining is observed in thyroid epithelial cells, consistent with the expected nuclear localization of Zinc fingers and homeoboxes protein 3 / ZHX3 as a transcription-associated regulatory protein involved in gene expression control and differentiation-associated signaling pathways. Sections underwent HIER using 10mM Tris with 1mM EDTA buffer, pH 9, prior to staining with antibody at 2ug/ml.



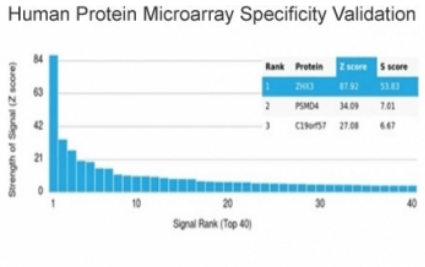
ZHX3 Antibody HeLa IF. Immunofluorescence analysis of PFA-fixed human HeLa cells stained with ZHX3 Antibody / Transcriptional Regulation Marker (green, clone PCRP-ZHX3-1G3) and phalloidin cytoskeletal stain (red). Zinc fingers and homeoboxes protein 3 / ZHX3 demonstrates prominent nuclear staining with additional cytoplasmic signal in human HeLa cells, consistent with the intracellular distribution expected for a transcription-associated regulatory protein involved in nuclear gene expression control and differentiation-associated signaling pathways.



ZHX3 Antibody HeLa FACS. Flow cytometry analysis of PFA-fixed human HeLa cells stained with ZHX3 Antibody / Transcriptional Regulation Marker (blue, clone PCRP-ZHX3-1G3). Isotype control cells are shown in red. The distinct fluorescence shift supports detection of endogenous Zinc fingers and homeoboxes protein 3 / ZHX3 expression in HeLa cells, consistent with the broad intracellular distribution expected for a transcription-associated nuclear regulatory protein involved in gene expression control and differentiation-associated signaling pathways.



SDS-PAGE analysis of purified, BSA-free ZHX3 antibody (clone PCRP-ZHX3-1G3) as confirmation of integrity and purity.



ZHX3 Antibody HuProt Microarray Specificity Validation. Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using ZHX3 Antibody / Transcriptional Regulation Marker clone PCRP-ZHX3-1G3 demonstrates highly selective recognition of Zinc fingers and homeoboxes protein 3 / ZHX3. The intended ZHX3 target ranks first among all proteins analyzed on the array, with strong separation from secondary signals, supporting the specificity profile of this mouse monoclonal antibody for transcriptional regulation and nuclear signaling research applications. Z-score represents signal intensity above background in standard deviation units, while S-score reflects the relative specificity of antibody binding compared with additional proteins present on the HuProt(TM) platform.

Description

Zinc fingers and homeoboxes protein 3 (ZHX3) is a nuclear regulatory protein involved in transcriptional control, differentiation-associated gene expression, and developmental signaling pathways. ZHX3 Antibody / Transcriptional Regulation Marker is suitable for studies involving nuclear transcription-associated proteins, developmental regulatory networks, and zinc finger homeobox family signaling pathways. ZHX3 belongs to the ZHX family of transcription-associated regulatory proteins characterized by zinc finger motifs and homeobox domains that contribute to coordinated control of gene expression and cellular differentiation programs.

ZHX3 antibody, also referred to as Zinc fingers and homeoboxes 3 antibody, Zinc finger homeobox protein antibody, and ZHX family transcription factor antibody in the literature, recognizes a nuclear-associated regulatory protein implicated in transcriptional repression and modulation of differentiation-associated signaling pathways. Members of the ZHX protein family frequently function within multiprotein transcriptional complexes that regulate developmental gene expression, lineage specification, and adaptive cellular responses. Through interactions with DNA-associated regulatory machinery, ZHX3 contributes to coordinated transcriptional regulation within multiple tissue and cellular contexts.

ZHX family proteins are broadly associated with pathways controlling proliferation, differentiation, tissue homeostasis, and developmental signaling. The presence of zinc finger motifs and homeobox domains allows these proteins to participate in transcription-associated regulatory networks linked to chromatin organization and nuclear signaling pathways. ZHX3 is primarily localized within the nucleus, consistent with its role as a transcription-associated regulatory protein involved in gene expression control and cellular identity maintenance.

Altered expression of transcriptional regulatory proteins such as ZHX3 may contribute to dysregulated differentiation, abnormal cellular signaling, and disease-associated transcriptional remodeling. ZHX family proteins have been investigated in developmental biology, epithelial differentiation pathways, and tumor-associated transcriptional regulation. Because transcriptional control proteins coordinate broad gene expression programs, ZHX3 remains relevant for investigations involving nuclear regulatory mechanisms, developmental signaling pathways, and differentiation-associated cellular processes.

Immunohistochemistry, immunofluorescence, and flow cytometry analyses support detection of endogenous ZHX3 expression across multiple research applications. HuProt(TM) protein microarray specificity validation with clone PCRP-ZHX3-1G3 further demonstrates highly selective recognition of ZHX3 among more than 19,000 full-length human proteins. The combined validation profile supports use of this mouse monoclonal antibody for investigations involving transcriptional regulation, zinc finger homeobox proteins, nuclear signaling pathways, and differentiation-associated gene expression programs.

An antibody targeting ZHX3 can therefore support studies involving transcriptional regulatory complexes, nuclear differentiation pathways, developmental signaling networks, chromatin-associated gene expression control, and zinc finger homeobox family biology.

ZHX3 functions in nuclear transcriptional regulation and differentiation-associated signaling pathways; explore related regulatory proteins and cellular pathway targets on our Cell Biology Antibodies landing page.

Application Notes

Optimal dilution of the ZHX3 Antibody / Transcriptional Regulation Marker should be determined by the researcher.

Immunogen

Recombinant full-length human ZHX3 protein was used as the immunogen for the ZHX3 antibody.

Storage

Aliquot the ZHX3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

ZHX3 antibody, Zinc fingers and homeoboxes 3 antibody, Zinc finger homeobox protein antibody, ZHX family transcription factor antibody, Nuclear transcriptional regulator antibody

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