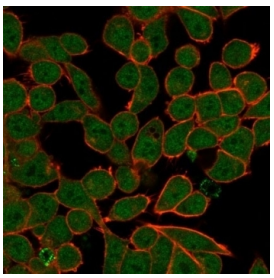
ZNF81 Antibody PCRP-ZNF81-2C7 / KRAB Zinc Finger Antibody [clone PCRP-ZNF81-2C7] (V9599)

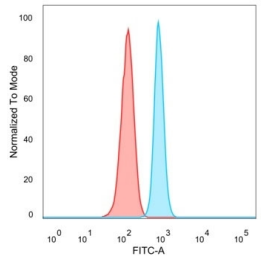
Catalog No.	Formulation	Size
V9599-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9599-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9599SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

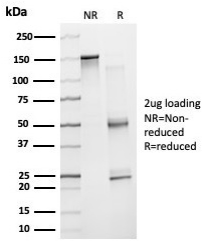
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	PCRP-ZNF81-2C7
Purity	Protein A/G affinity
UniProt	P51508
Localization	Nucleus, Cytoplasm
Applications	ELISA (order BSA-free format for coating) Flow cytometry: 1-2ug/million cells Immunofluorescence: 1-2ug/ml Western blot: 1-2ug/ml
Limitations	This ZNF81 Antibody PCRP-ZNF81-2C7 / KRAB Zinc Finger Antibody is available for research use only.



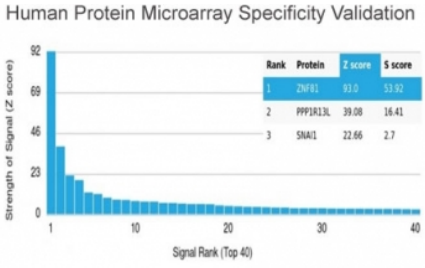
ZNF81 Antibody PCRP-ZNF81-2C7 Detection in HeLa Cervical Cancer Cells IF. Immunofluorescence staining of PFA-fixed human HeLa cervical cancer cells using ZNF81 Antibody, clone PCRP-ZNF81-2C7 (green), with phalloidin counterstaining of the actin cytoskeleton (red). The staining demonstrates cellular detection by this KRAB Zinc Finger Antibody under the tested conditions.



ZNF81 Antibody PCRP-ZNF81-2C7 Detection in HeLa Cervical Cancer Cells FACS. Flow cytometry analysis of PFA-fixed human HeLa cervical cancer cells using ZNF81 Antibody, clone PCRP-ZNF81-2C7. The blue histogram represents antibody-stained cells and the red histogram represents the isotype control. The shift in fluorescence intensity relative to the control demonstrates detection by this KRAB Zinc Finger Antibody under the tested conditions.



Purified ZNF81 Antibody PCRP-ZNF81-2C7 Under Reducing and Non-Reducing Conditions. SDS-PAGE analysis of purified, BSA-free ZNF81 Antibody, clone PCRP-ZNF81-2C7, under non-reducing and reducing conditions. The observed antibody banding pattern provides confirmation of the integrity and purity of the monoclonal KRAB Zinc Finger Antibody preparation.



ZNF81 Antibody PCRP-ZNF81-2C7 Protein Microarray Validated. Protein microarray analysis of ZNF81 Antibody, clone PCRP-ZNF81-2C7, using a HuProt array containing more than 19,000 full-length human proteins. ZNF81 produced a Z-score of 36.80 and an S-score of 33.49, showing exceptionally strong separation of the intended target from the next-highest signal. The Z-score represents signal strength in standard deviations above the mean array signal, while the S-score represents the difference between the intended target Z-score and the next-highest Z-score and therefore reflects relative target specificity. These results demonstrate strong proteome-wide specificity of this KRAB Zinc Finger Antibody.

Description

ZNF81 Antibody PCRP-ZNF81-2C7 / KRAB Zinc Finger Antibody recognizes zinc finger protein 81 (ZNF81), a member of the Krueppel C2H2-type zinc finger protein family. ZNF81 is a transcriptional regulator containing 12 C2H2-type zinc finger motifs and a Krueppel-associated box (KRAB) domain. C2H2 zinc fingers provide sequence-specific nucleic acid-binding capabilities in many regulatory proteins, while the KRAB domain is a potent transcriptional repression module found in a large family of mammalian zinc finger proteins.

KRAB zinc finger proteins commonly regulate gene expression through cooperation with transcriptional corepressors. The KRAB domain can interact with KAP1, also known as TRIM28, which functions as a scaffold for chromatin-regulatory factors. KAP1-associated complexes can recruit proteins involved in histone modification and chromatin remodeling, including SETDB1, heterochromatin protein 1, and histone deacetylase-containing complexes. These interactions provide a mechanism through which KRAB zinc finger proteins can promote transcriptional silencing and influence local chromatin states.

ZNF81 is encoded on the X chromosome and has historically also been referred to as HFZ20 and MRX45. Genetic alterations involving ZNF81 have been investigated in relation to X-linked neurodevelopmental phenotypes, making the protein relevant to research examining transcriptional regulation and nervous system development. Although the specific genomic targets and regulatory functions of ZNF81 remain less extensively characterized than those of some other KRAB zinc finger proteins, its domain architecture places it within a major family of proteins involved in transcriptional and chromatin regulation.

Clone PCRP-ZNF81-2C7 is a mouse monoclonal antibody generated using recombinant full-length human ZNF81 protein as the immunogen. This ZNF81 Antibody is Protein Microarray Validated against a HuProt array containing more than 19,000 full-length human proteins, providing additional specificity data for the clone. NSJ Bioreagents offers this KRAB

Zinc Finger Antibody for researchers investigating ZNF81 expression, transcriptional regulation, and chromatin-associated biology. A ZNF81 Antibody provides a targeted reagent for studying this member of the C2H2 zinc finger protein family.

Explore our Epigenetics Antibodies page for additional reagents targeting proteins involved in transcriptional regulation, chromatin biology, and epigenetic control of gene expression.

Application Notes

Optimal dilution of the ZNF81 Antibody PCRP-ZNF81-2C7 / KRAB Zinc Finger Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human ZNF81 protein was used as the immunogen for the ZNF81 Antibody PCRP-ZNF81-2C7.

Storage

Aliquot the ZNF81 Antibody PCRP-ZNF81-2C7 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

ZNF81 antibody, Zinc finger protein 81 antibody, HFZ20 antibody, MRX45 antibody, KRAB zinc finger protein 81 antibody

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