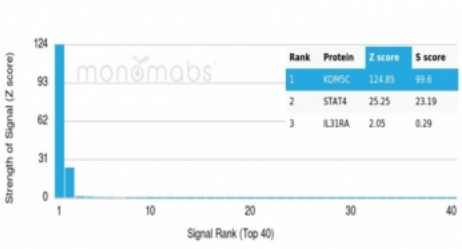
JARID1C Antibody / KDM5C / SMCX [clone PCRP-KDM5C-1A11] (V5326)

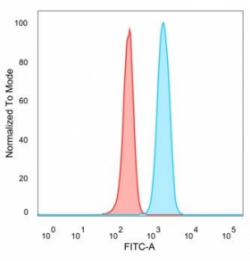
Catalog No.	Formulation	Size
V5326-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5326-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5326SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

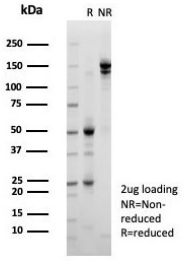
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c
Clone Name	PCRP-KDM5C-1A11
Purity	Protein A/G affinity
UniProt	P41229
Localization	Nucleus
Applications	Flow cytometry: 1-2ug/million cells
Limitations	This JARID1C antibody is available for research use only.



Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using JARID1C antibody (PCRP-KDM5C-1A11). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.



Flow cytometry testing of PFA-fixed human HeLa cells with JARID1C antibody (clone PCRP-KDM5C-1A11) followed by goat anti-mouse IgG-CF488 (blue); Red = unstained cells.



SDS-PAGE analysis of purified, BSA-free JARID1C antibody (clone PCRP-KDM5C-1A11) as confirmation of integrity and purity.

Description

SmcX, also known as JARID1C (jumonji, AT rich interactive domain 1C), MRXJ, KDM5C or XE169, is a nuclear protein that contains one ARID domain, one JmjC domain, one JmjN domain and two PHD-type zinc fingers and belongs to the JARID1 histone demethylase family. Expressed ubiquitously with highest expression in brain and skeletal muscle, SmcX functions as a histone demethylase that removes methyl groups from lysine residues on Histone H3, thereby playing a role in the histone code, as well as transcriptional regulation and chromatin remodeling. SmcX binds iron and a-ketoglutarate as cofactors and can recruit histone deacetylases to neuron silencer elements, thus repressing the transcription of neuronal genes. Defects in the gene encoding SmcX are associated with X-linked mental retardation (XLMR), a condition characterized by cognitive impairment and a low IQ. Multiple isoforms of SmcX are expressed due to alternative splicing events.

Application Notes

Optimal dilution of the JARID1C antibody should be determined by the researcher.

Immunogen

Recombinant full-length human protein was used as the immunogen for the JARID1C antibody.

Storage

Aliquot the JARID1C antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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