

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

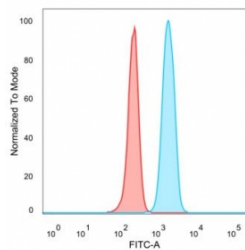
Catalog No.	Formulation	Size
V5326-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5326-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5326SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

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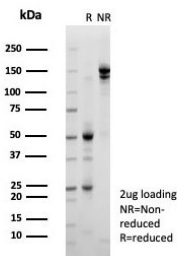
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2c
<b>Clone Name</b>	PCRP-KDM5C-1A11
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P41229
<b>Localization</b>	Nucleus
<b>Applications</b>	Flow Cytometry : 1-2ug/million cells
<b>Limitations</b>	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&#39;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&#39;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  $\alpha$ -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  $-20^{\circ}\text{C}$  or colder. Avoid repeated freeze-thaw cycles.