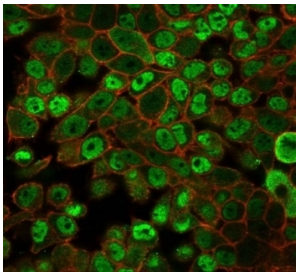
JAZF1 Antibody / Transcriptional Regulation Protein [clone PCRP-JAZF1-1C2] (V9613)

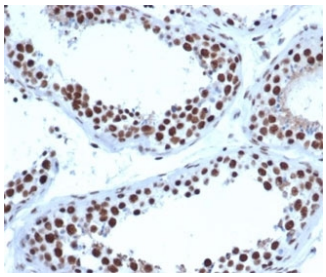
Catalog No.	Formulation	Size
V9613-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9613-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9613SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

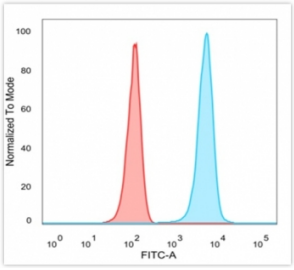
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	PCRP-JAZF1-1C2
Purity	Protein A/G affinity
UniProt	Q86VZ6
Localization	Nucleus
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This JAZF1 Antibody / Transcriptional Regulation Protein is available for research use only.



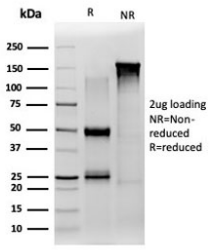
JAZF1 Antibody HeLa IF. Immunofluorescence analysis of PFA-fixed human HeLa cells stained with JAZF1 Antibody / Transcriptional Regulation Protein (green, clone PCRP-JAZF1-1C2) together with phalloidin cytoskeletal stain (red). Prominent nuclear-associated fluorescence is observed throughout HeLa cells, consistent with localization of JAZF1 as a zinc finger transcriptional regulatory protein involved in nuclear gene expression and chromatin-associated signaling pathways.



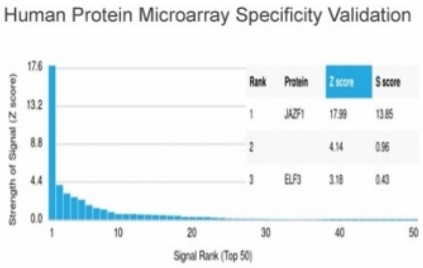
JAZF1 Antibody Testis IHC. Immunohistochemistry analysis of FFPE human testis tissue stained with JAZF1 Antibody / Transcriptional Regulation Protein clone PCRP-JAZF1-1C2 at 2 ug/ml following HIER in pH 9 Tris-EDTA buffer. Strong HRP-DAB brown nuclear staining is observed in seminiferous epithelial cell populations, consistent with expression of JAZF1 as a nuclear zinc finger protein involved in transcriptional regulation and chromatin-associated gene control pathways.



JAZF1 Antibody HeLa FACS. Flow cytometry analysis of PFA-fixed human HeLa cells stained with JAZF1 Antibody / Transcriptional Regulation Protein (blue, clone PCRP-JAZF1-1C2). A pronounced rightward fluorescence shift is observed relative to unstained control cells (red), consistent with endogenous expression of JAZF1, a nuclear zinc finger protein involved in transcriptional regulation and chromatin-associated signaling pathways.



SDS-PAGE analysis of purified, BSA-free JAZF1 antibody (clone PCRP-JAZF1-1C2) as confirmation of integrity and purity.



JAZF1 Antibody HuProt Specificity Validation. Human protein microarray specificity analysis of more than 19,000 full-length human proteins using JAZF1 Antibody / Transcriptional Regulation Protein clone PCRP-JAZF1-1C2 demonstrates highly selective binding to JAZF1 with a Z-score of 17.99 and an S-score of 13.85. Minimal reactivity is observed with unrelated proteins, supporting strong specificity of clone PCRP-JAZF1-1C2 for JAZF1, a nuclear zinc finger protein involved in transcriptional regulation and chromatin-associated signaling pathways.

Description

Juxtaposed with another zinc finger gene 1 (JAZF1) is a nuclear zinc finger protein involved in transcriptional regulation, metabolic signaling, chromatin-associated gene control, and cellular differentiation pathways. JAZF1 Antibody / Transcriptional Regulation Protein is useful for studying nuclear regulatory signaling, adipogenesis, metabolic homeostasis, transcription-factor biology, and cancer-associated gene regulation. JAZF1 functions primarily as a transcription-associated nuclear protein that modulates expression of genes involved in cell growth, glucose metabolism, lipid regulation, and developmental signaling.

JAZF1 antibody, also referred to as Juxtaposed with another zinc finger gene 1 antibody, TIP27 antibody, or zinc finger transcription regulator antibody in the literature, recognizes a nuclear protein containing multiple zinc finger domains involved in DNA-binding and transcriptional regulatory activity. JAZF1 has been implicated in adipocyte differentiation, insulin sensitivity, glucose metabolism, and regulation of inflammatory signaling pathways. Genome-wide association studies have additionally linked JAZF1 to type 2 diabetes susceptibility, metabolic syndrome biology, and lipid homeostasis pathways.

JAZF1 localizes predominantly within the nucleus where it participates in transcription-associated regulatory complexes controlling gene expression and chromatin organization. The protein has been studied extensively in cancer biology due

to recurrent chromosomal rearrangements involving JAZF1 in endometrial stromal sarcoma and related mesenchymal tumors. Fusion events involving JAZF1 and SUZ12/JJAZ1 alter transcriptional control pathways and contribute to tumor-associated epigenetic dysregulation. Because of these roles, JAZF1 has emerged as an important target in studies investigating nuclear regulation, transcriptional control, and tumor-associated chromatin biology.

Beyond its role in transcriptional regulation, JAZF1 contributes to metabolic and endocrine signaling pathways regulating hepatic lipid metabolism, adipose tissue function, and insulin-responsive gene expression. The protein has additionally been implicated in inflammatory adaptation, cellular proliferation, and differentiation-associated signaling mechanisms. Expression of JAZF1 has been detected in multiple tissue types including endocrine-associated tissues, epithelial cell populations, and metabolically active organs.

JAZF1 is encoded on chromosome 7p15 and produces a nuclear-localized zinc finger protein involved in regulation of transcription-associated complexes and chromatin-responsive signaling pathways. The protein contains multiple C2H2-type zinc finger domains characteristic of DNA-binding transcriptional regulators. Because JAZF1 integrates metabolic signaling with nuclear transcriptional control, the protein remains an important target in metabolism, oncology, and transcription-factor research.

This mouse monoclonal JAZF1 antibody clone PCRP-JAZF1-1C2 has been supported using immunofluorescence, immunohistochemistry, flow cytometry, and HuProt protein microarray specificity validation approaches. These data support selective endogenous JAZF1 detection in nuclear-associated cellular compartments and provide utility for studies investigating transcriptional regulation, metabolic signaling, and chromatin-associated protein expression.

Explore the Signal Transduction Antibodies page for additional antibodies targeting transcriptional regulators, nuclear signaling proteins, and chromatin-associated factors involved in gene expression and cellular regulatory pathways.

Application Notes

Optimal dilution of the JAZF1 Antibody / Transcriptional Regulation Protein should be determined by the researcher.

Immunogen

A portion of amino acids 1-130 was used as the immunogen for the JAZF1 antibody.

Storage

Aliquot the JAZF1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Juxtaposed with another zinc finger gene 1 antibody, TIP27 antibody, Zinc finger transcription regulator antibody, JAZF1 nuclear protein antibody, JAZF1 metabolic regulator antibody