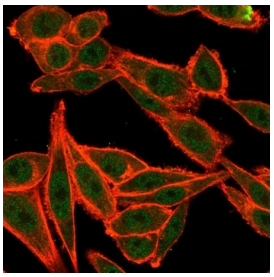
TARBP2 Antibody [clone PCRP-TARBP2-1E5] (V9245)

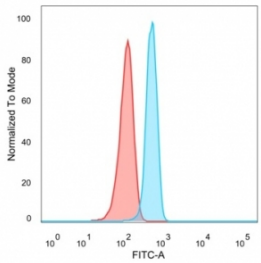
Catalog No.	Formulation	Size
V9245-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9245-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9245SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

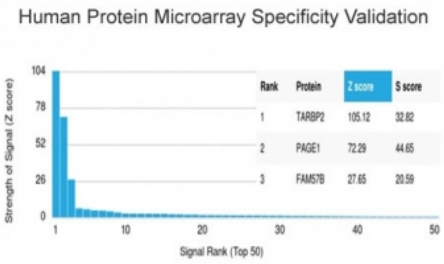
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	PCRP-TARBP2-1E5
Purity	Protein A/G affinity
UniProt	Q15633
Localization	Cytoplasm, Nucleus
Applications	Flow cytometry: 1-2ug/million cells Immunofluorescence: 1-2ug/ml Western blot: 1-2ug/ml
Limitations	This TARBP2 antibody is available for research use only.



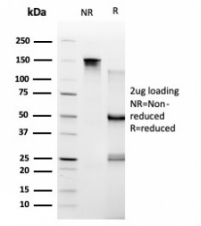
Immunofluorescent staining of PFA-fixed human HeLa cells using TARBP2 antibody (green, clone PCRP-TARBP2-1E5) and phalloidin (red).



FACS staining of PFA-fixed human HeLa cells with TARBP2 antibody (blue, clone PCRP-TARBP2-1E5), and unstained cells (red).



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using TARBP2 antibody (clone PCRP-TARBP2-1E5). These results demonstrate the foremost specificity of the PCRP-TARBP2-1E5 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) 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 the targets on the 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-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free TARBP2 antibody (clone PCRP-TARBP2-1E5) as confirmation of integrity and purity.

Description

TRBP2, also known as TARBP2 (trans-activation-responsive (HIV-1) RNA binding protein 2), TRBP1 or TRBP, is a nuclear protein that contains three DRBM (double-stranded RNA-binding) domains. TRBP binds between the bulge and the loop of the HIV-1 TAR RNA regulatory element and activates HIV-1 gene expression in synergy with the viral Tat protein. The third DRBM motif in the C-terminus of human TRBP2 can interact with and inhibit PKR activity, thereby increasing HIV-1 long terminal repeat (LTR) expression. In addition, TRBP2 functions as a component of a Dicer-containing complex and associates with the catalytic subunit of the RNA-induced silencing complex (RISC), namely eIF2C2. TRBP2 is essential for Dicer stability and the proper assembly of RISC. This suggests that TRBP2, in association with Dicer, plays an important role in the processing of miRNAs (microRNAs).

Application Notes

Optimal dilution of the TARBP2 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human TARBP2 protein was used as the immunogen for the TARBP2 antibody.

Storage

Aliquot the TARBP2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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